

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

APRIL 15, 1960

Bund



Serial Dept.

APR 12 1960

Abies Nordmanniana x A. ies Cephalonica

SEEDS TREE—SHRUB—PERENNIAL
FLOWER—GRASS—VEGETABLE

HERBST BROTHERS

SEEDSMEN, INC.

678 Broadway, New York 12, N. Y.

Correspondence with seed collectors and growers invited. Free catalog "Seeds for Nurserymen."

rs

ced
een
nts.
cost
oted
risk

avy
ght
uly.
ike

NDEE
ERGRE

TRADE MARK
TZER JUNIOR
seeds pittoresque
NIGHT, 6" WIDE
ON LIGHT SHADE
PRICE

GREENS
RS

3451

erica

Are You Prepared for The Late Spring Rush?

Sales lost earlier can be regained! Up to eight weeks of spring planting remains to be done. A strong selling effort, backed by a balanced inventory of quality stock, can give you a successful season.

Wire, phone or special delivery orders will bring prompt replenishment of needed items. Check your wants with our latest wholesale list.

Look to Mount Arbor for That Plus Business

Our mechanically cooled, air-conditioned storage keeps stock in prime condition for your late spring order. Take advantage of this late spring rush. We are prepared to give prompt service by truck or express. Bare-root or packaged stock available in good assortments.

SEE OUR REPRESENTATIVE OR PHONE:

Shenandoah 383 - 384 or 385.



ESTABLISHED 1875

One of America's Foremost Nurseries

Mount Arbor Nurseries

• SHENANDOAH IOWA •

AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. CXI, NO. 8

APRIL 15, 1960

Founded 1904

With which was merged 1939

THE NATIONAL NURSERYMAN

Established 1893



Published on the
first and fifteenth
of each month by the
AMERICAN NURSERYMAN
PUBLISHING COMPANY
343 South Dearborn Street,
Chicago 4, Illinois
Telephone: WAbash 2-9011



Subscription Price:
\$5.00 per year;
Outside U. S. A., \$6.00;
Single copies, 25c.

Second-class postage
paid at Chicago, Ill.



Advertising Rates
On Application.
For Closing Dates
See Next Page.



Eastern Representative
Vincent Vuoto
225 West 34th Street, Room 2218
New York 1, New York
Telephone: CHickering 4-6468

Pacific Coast Representative
Richard B. Kilner
465 California Street
San Francisco 4, California
Telephone: YUkon 2-9030

CONTENTS

Chicago World Flower Show	7
By Irving G. Moore	
Record Crowds at New England Show	9
Long Island Nurserymen Stage Show at Westbury	11
By Donald W. Griffiths, Jr.	
Department Store Nursery Thrives at San Francisco	13
By Richard B. Kilner	
Summer-Flowering Shrubs and Trees (Part II)	14
By Clarence E. Lewis	
Alfred L. Boerner Botanical Gardens	16
Noteworthy Trees in Wisconsin Arboretum	17
By John E. Voight	
Choice Deciduous Shrubs Add Color to Evergreens	18
By Lewis F. Lipp	
Urban Redevelopment	62
Growing Plants in Containers	68
Reported by F. C. Galle	
Plant Notes Here and There	76
By C. W. Wood	
Effects of Photoperiod and Fertilizing	112
Insects and Their Control	118
Soil Conditioners	128
Improving Garden Center Operations	138
Reported by H. W. Dengler	
Editorial	6
—Stop Dutch Elm Disease	6
—Lending a Strong Hand	6
—Consumer Cash	6
Columbus Garden Show	10
Move 30-Year-Old Deodar Cedar	10
Coming Events	20
—Meeting Calendar	20
—Alabama Program	24
—Georgia Field Day	28
—North Carolina Tour	28
—Holly Society Program	30
—Maryland June Dates	30
—South Carolina Plans	30
—Ohio Shade Tree Meet	34
—Plan Michigan School	34
—Nebraska Sets Date	34
—Pennsylvania Meet	34
New Bluegrass Released	34
Charlie Chestnut	38
—A Winter Morning	38
Nematode Conference	46
This Business of Ours	50
—The Oaks	50
Cover Illustration	54
Book Reviews	56
—Peony Book Welcome	56
—Mist Propagation	58
—New Book on Evergreens	58
Malls and Boulevards	62
Management of Lawns	63
North Jersey Election	65
Further Notes on Crab Apple Plants	66
New Arcadian Nursery	80
Obituary	82
—Richard R. Williams	82
—Niels S. Lund	82
—James Beck	82
—Stephen J. Heirens	83
—Robert R. Alexander	83
—Albert Fisher	83
—Fred Mahan	83
Juniper Hosts of Rusts	84
California Association of Nurserymen	88
—Redwood Empire Chapter	88
—Monterey Bay Chapter	88
—Tri-County Chapter	88
Arborists Meet	90
Grimshaw's Adds Store	92
Oregon Chapter Notes	93
Insects, Fourth Meeting Topic at Portland	107
California Notes	110
Effects of Photoperiod	112
Liquid Applications	112
Feeding Woody Plants	114
Scale Insects	118
Pest Controls	121
Careful Planning Produces Mid- west Garden Clinic	122
Estimating, Topic of Long Island Landscape Group	125
Kinds and Uses of Peat	128
Use of Wood Chips	130
Plant Patents	140
Discuss Selling of Christmas Trees	143
Legal Decisions	146



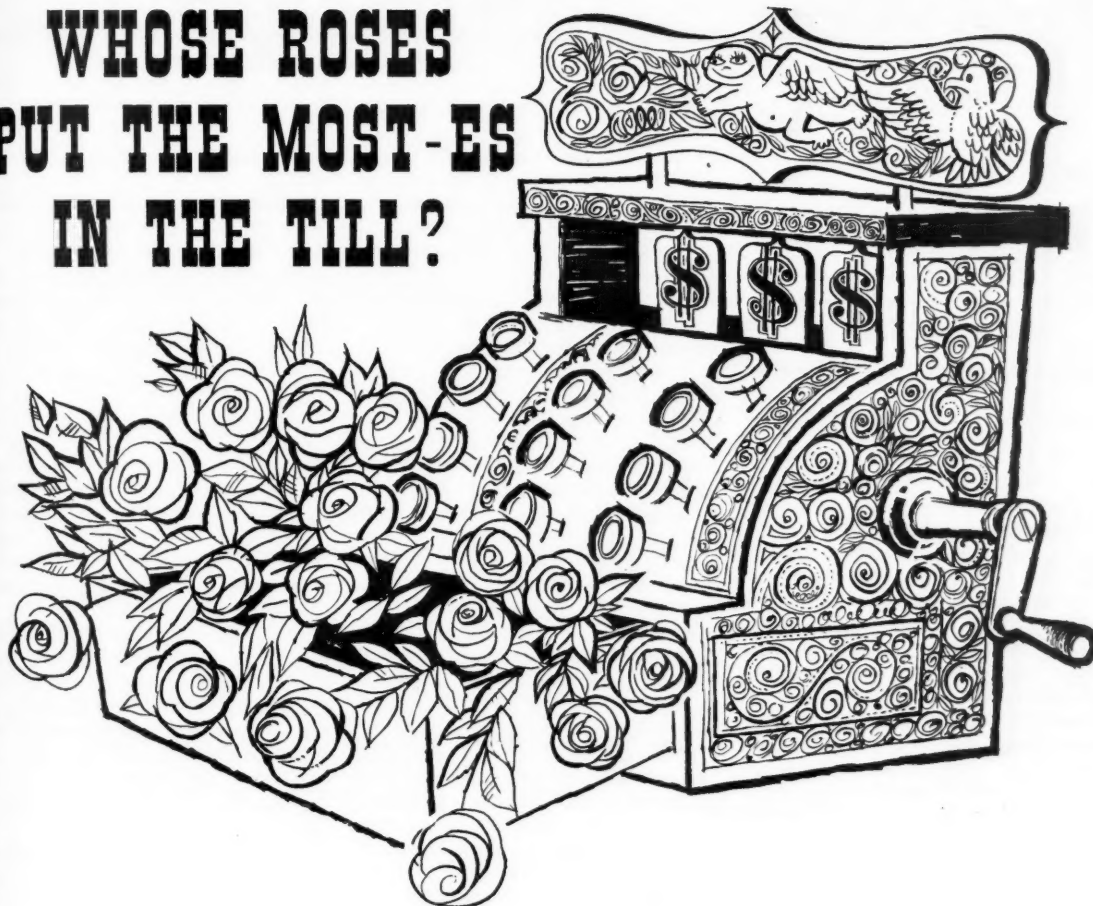
INDEX TO ADVERTISERS

Advance Process Supply Co., Inc.	144	Fafard, Inc., Conrad	132	Loveitt's Nursery, Inc.	48	Rootspread	140-141
Agricultural Rubber Products	137	Fairview Evergreen Nurseries	58	Lustgarten, Baier	78	Rosemar Mower Corp.	112
Alnawold Nursery	46	Felby Fences, Inc.	110	Maloney Bros. Nursery Co.	87	Royal Fertilizers	112
Alridge Chemical Corp.	83	Felins Tyngs Machine Co.	130	Marketing Cooperative, Inc.	65	Royal Fertilizers Machinery Co., Inc.	134
Allied Chemical Corp.	31	Fitchburg Engineering Corp.	130	Marshall Nurseries	72	Ryan Landscaping Equipment Co., Inc.	140
Alumalath	155	Floc-Flo Corp.	118	Martin Co., Inc. Joseph F.	66-76-78		
Amchem Products, Inc.	139	Floral Gardens Nursery	78	Mathews Nursery	92	S-W Supply Co.	12
American Agricultural Chemical	133	Flower City Nurseries	85	Maxwell, Bowden & Rice	61	Sanders Nursery Co.	12
American Landscape School	143	Flower Grower Magazine	128	May Nursery Co.	92	Scarr's Nursery, Inc.	8
Ammon, A. G.	54	Flowerwood Nursery	86	McGill & Son, A.	92	Scroth's Nursery	48
Angelica Nurseries	56	Forest Nursery Co., Inc.	45	McGlinch Greenhouses	69	Schumacher, F. W.	7
Anthony & Co., Inc.	110	Forest Seeds of California	93	McKee's Nursery	85	Seaman Bag Co.	137
Anthony Lake Nursery, Inc.	85	Foster Nursery Co., Inc.	81	Mead Nursery	78	Semmes Nurseries	84
Aquacrols Corp. of America	133			Mead Specialties Co.	127	Shade's Nursery	46
Armstrong's Evergreen Nursery	19	Garden Shop, Inc.	126	Meadows Bros.	73	Shamburger Nursery, Carl	85
Arp Nursery Co.	85	Gardner's Nurseries, Inc.	63	Medical Service Corp.	141	Shank Farms	73
Asplundh Chipper Co.	123	Gar-Prod, Inc.	128	Meacham & Sons, Thomas	111	Shaw-Balfic Nursery	141
Atkin's Sons, L.	137	Geiger Co., E. C.	57-114-146	Melling's Nursery	78	Shepard Nurseries	141
Ayer-Line Industries, Inc.	134	Geigy Agricultural Chemicals	29	Menne-Pots, Inc.	31	Sherman Nursery Co.	7
		Gilmore Plant & Bulb Co.	86	Merion Bluegrass Assn.	55	Sheward Nursery Co.	90
		Gilson Garden	66-68-70-72-73-76-77-78-87	Merry Mfg. Co.	141	Shore & Co., J.	142
Bagatelle Nursery, Inc.	48			Michigan's West Shore Nursery	141	Siebertalcher Co.	172
Bailey Nurseries, J. V.	71	Gledhill Road Machinery Co.	120	Marketing Cooperative, Inc.	65	Sine Equipment Co.	140
Baker's Nurseries	48	Globe Nurseries	85	Miller Nurseries, J. E.	44	Sklabbe Mfg. Co.	115-120
Ball, Inc., George J.	25	Goochland Nurseries, Inc.	85	Milton Nursery Co.	92	Skinner Irrigation Co.	114
Barlett Mfg. Co.	116	Gorton's Nursery	61	Miss-O-Gation, Inc.	124	Slavin, Arthur	58
Bearfield Nurseries	54-65-68-70-71-72-73-77-78-80	Grant's Nursery	86	Mitsch Nursery	73	Smith & Son, Inc., Seymour	145
Bell Acre Nurseries	52	Green Mfg. Co., Howard C.	142	Monrovia Mfg. Works, Inc.	111	Sneed Nursery Co.	145
Bennett's Nursery	62	Gresham's Nursery	30	Moorestown Gardens, Inc.	44	Somerset Rose Nursery, Inc.	54
Bentley's Hardy Plants	81	Greyhound Corp.	43	Moran, E. C.	79	South Jersey Colonial Nurs.	44
Berryhill Nursery Co.	134	Growers Exchange, Inc.	91	Morning Star Nursery	82	Southside Nurseries, Inc.	82
Big BAS-KITS	121	Growers & Manufacturers	83	Morrison Steel Co.	114	Sowams Nursery	46
Big River Nursery	83	Growers Sign Service	121	Moses Nurseries	56	Sprayers & Nozzles	132
Bird & Son, Inc.	39	Gulf Stream Nursery, Inc.	86	Mount Arbor Nurseries	2	Standard Engineering Works	111
Blackwell Nurseries	81			Mount Hood Nursery	90	Steele's Pansy Gardens, Inc.	88
Bloodgood Nurseries	63	Half Moot Mfg. & Trading	119	Muellermirt Irrigation Supply	114	Stephens Nurseries	85
Bloomer Nurseries, George F.	60	Halpern Bros.	146	Multiplex Display Fixture Co.	135	Sterling Bag & Burlap Co.	145
Bobbink Nurseries	63	Hansen Bros. Nurseries, Inc.	58	Musser Forests, Inc.	26-27	Stribling Nurseries	89
Book Ads	63-114-129-147	Hawthorn & Sons Nursery	85	Myers, E. Norman	48	Stumpy Supply Co.	141
Bork Nurseries	71	Heart of Missouri Poultry Farm	138	National Bundle Tye Co.	144	Summit Nurseries, Inc.	73
Bosley Nursery, Inc.	66	Heasley's Nurseries	52	National Greenhouse Co.	117	Suncrest Evergreen Nurseries	52
Boulevard Nurseries	46	Hemlock Hollow Nursery	64	National Landscape Institute	119	Sunderland Pipe Shop	126
Boyd Nursery Co.	83	Henderson, Inc. Alec	130	Native Amer. Holly Farms	142	Supreme Electric Products	145
Brick Nursery, L. P.	69	Herbst Bros. Seedsmen, Inc.	1	Natorp Co., W. A.	80	Sweeney, Krist & Dimm	93
Bridgeport Implement Works, Inc.	144	Hermitage Gardens	62	Naugher Nursery, Inc.	86		
Brookfield Gardens	54	Hess's Nurseries	36	Nekoosa-Edwards Paper Co.	65	Tankard Nurseries	84
Brower's Nurseries	54	Hill Nursery Co., D.	148	Neppo Lake Nursery	65	Tape, Inc.	145
Brown Bros.	60-61	Hillmaney Nurseries	86	New Amsterdam Import Co.	145	Tennessee Valley Nursery	88
Bryant's Nurseries	80	Hobbs & Sons, Inc. C. M.	71	New Jersey Farm Supply	126	Tepper Nursery	72
Bulk's Nurseries	62	Holland Nursery Products	69	Coop. Assn., Inc.	126	Teufel, Alfred	70
Buntings Nurseries, Inc.	50	Home Nursery	69	New York Bag & Burlap	109	Texas Nursery Co.	72
		Homestead Nurseries	69	Nu Bark	136	Thimpany Pkg. & Paper Co.	127
		Horsford, William Crosby	46	Nursery Equipment Co., Inc.	53-143	Thomas Mfg. Co.	124
		Horicultural Products Co.	116	Nursery Sales, Inc.	61	Traas's Nursery	84
		Howard-Hickory Co.	82	Nursery Specialty Products, Inc.	136	Trim Tree Nursery	52
		Howards of Hemet	5			Tritschler's Nursery	82
		Hren Nurseries, Jos. A.	44	Oakes Mfg. Co.	124	Union Products, Inc.	28
		Humphreys Landscape Service	86	Old Orchard Gardens	113		
		Hydroponic Chemical Co., Inc.	144	Orega Nursery Co.	76	Vanderbolc Nurseries, Inc.	50
				Oregon Bulb Farms	92	Vander Pol Nurseries	63
				Orr Co., Inc., J. A.	132	Van Heiningen Nurseries	42
				Owen & Son, Inc., T. G.	32-33	Van Veen Nursery	92
				Ozark Nursery Co.	82	Vans Pines	70
						Vaughan's Seed Co.	35
				Pacific Coast Nursery	91	Verhalen Nursery Co.	83
				Pallack Bros. Nurseries	58-59	Verkade's Nurseries	37
				Palmer & Son, J. R.	80	Vermeulen & Son, Inc.	37
				Paul's Nursery	70	Vesters Nurseries & Greenhouses	54
				Peace & Son Nursery	87		
				Peacock Nurseries	76	W-W Grinder Corp.	109
				Peace Seed Co.	87	Wade & Gaffon Nurseries	80
				Peeskill Nurseries	62	Want Ads	106-107
				Peters Co., Robert B.	140	Waynesboro Nurseries	87
				Peterson & Dering	21	Weeks Gardens	78
				Pierson, Inc., A. N.	60	Weeks Wholesale Rose Grower	89
				Pikes Peak Nurseries	42	Wells Nursery, Inc., James	64
				Pine Grove Nursery	56	Western Maine Forest Nursery Co.	40
				Planting Nurseries, Inc.	67	Whalley, J. B.	92
				Portland Nurseries, Inc.	67	WhiteShowers, Inc.	84
				Portland Wholesale Nursery	91	Wight Nurseries, Inc.	108
				Possum Hollow Nurseries	56	Williams & Harvey Nurseries	108
				Powell Valley Nursery	90	William, Isaac Langley	70
				Premier Peat Moss Corp.	107	Willis Nursery Co.	70
				Premier Southern Ticket	146	Willis-Reynolds Corp.	121
				Pretlow Peanut Co., Inc.	122	Willowbend Nursery	73
				Princeton Nurseries	60-61	Wilsey Evergreen Nursery	56
				Progressive Charts	136	Wilson Nurseries, C. E.	88
						Wilson's Nursery, C.	88
						Wirth, Hermann A.	121
						Wisconsin Motor Corp.	121
						Wolfcrest Products	122
						Wood Products Co.	122
						Wright, C. D.	71
						Wyoming Nurseries	71

Forms for the May 1 issue will close Friday, April 15.

Forms for the May 15 issue will close Friday, April 29. Mail copy to arrive at Chicago by these dates — no later.

WHOSE ROSES PUT THE MOST-ES IN THE TILL?



You know what they say: "A rose is a rose." But 'taint so. Any nurseryman, however green behind the thumbs, knows that a **HOWARDS OF HEMET** rose is really Fort Knox with petals.

This "gold standard" of rose growing is something we can't take full credit for. Nature had a hand in favoring our fertile Hemet valley with climatic conditions that just can't be equalled elsewhere. Add to this 50 years of rose-growing experience. Add a sixth sense about hybridizing best-selling originations such as Angel Wings, Governor Rosellini, Tom Tom, etc. Add a complete selection of "most wanted" patented and non-patented varieties including new All-America Winners.

Add—oh yes, a blushing modesty that keeps us from bragging about how great our roses really are. Take it from there. Our brand new 1960-61 wholesale catalog will fill in the rest. Send today for your copy.

"Seasoned Rosebushes"

for the wholesale trade exclusively.

HOWARDS of HEMET
"Seasoned Rosebushes"
HEMET • CALIFORNIA



AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

FRED H. KILNER
Managing Editor

I. G. MOORE
Associate Editor

C. A. BRADY, Jr.
Advertising Manager

Editorial

STOP DUTCH ELM DISEASE

The success of more than 50 cities in northern and northeastern Illinois in the control of Dutch elm disease by conducting community-wide programs is heartening to those persons who hope for continued planting of the American elm as the most beautiful in shape of our large shade trees. In a number of the Illinois communities that have been conducting comprehensive disease control programs for four or more years, annual Dutch elm disease losses have been kept below 1 per cent of the elm populations.

These cities are not in the part of the state where elm phloem necrosis is known to occur. While Dutch elm disease has now been confirmed as present in all 102 counties of Illinois, the southern half of the state, and particularly the cities of Champaign-Urbana and Bloomington, has been doubly plagued, suffering the presence of phloem necrosis as well. In combination with the Dutch elm disease, it has caused losses as high as 80 per cent of the original population, according to a report on the status of Dutch elm disease in Illinois in the Plant Disease Reporter for March 15, supplied by plant pathologists of the Illinois Natural History Survey.

The encouraging aspect of the report is the success of the cities conducting disease control programs. They follow closely the recommendations compiled by the midwestern chapter of the National Shade Tree Conference and printed as a "Guide for Community-Wide Control of Dutch Elm Disease." The publication describes in detail the various aspects of surveying, scouting, sanitation and spraying. Important are the sanitation practices to eliminate actual or potential sources of elm bark beetles. Many cities have local ordinances to enforce removal of known diseased trees from private property. Spraying practice is chiefly

one application in the dormant season. Where the public is stimulated to cooperation, ordinances or other legal action are not required.

Those cities successfully controlling Dutch elm disease find that the cost of sanitation and spray control is less than the cost of removing the trees that would be lost if the disease should reach an epiphytotic level. Thus they are able to maintain the beauty of their communities by preserving the elms.

How important a place the elm holds in the communities of northern Illinois is apparent from a recent count of the trees in parkways, school grounds, parks and other public places of Evanston, the largest suburb to the north of Chicago. Among 31,507 trees of 33 species, there were 19,783 elm, 2,883 hard maple, 1,782 ash, 1,448 oak and 1,003 soft maple. Only two cases of Dutch elm disease were reported in 1959, compared to 215 in 1958.

LENDING A STRONG HAND

The opening ceremony of the flower show at Chicago was shared by the mayor of the city and an 8-year-old pupil of a public school for retarded children, one among those benefiting from the work for such pupils done by the Chicago Horticultural Society. The value of activity with flowers and plants in mental therapy has received little notice, compared with the amount of practical work being done by specially trained teachers, as well as volunteers, supplied by funds from private and public sources. For several years a group of members of the Chicago Horticultural Society has diligently endeavored to promote such work in their city, supplying pot soil, seedlings, cuttings and small plants for retarded children to care for at school and at home, as they learn the rudiments of plant growth.

The knowledge and skill that such retarded individuals attain in later years is not so important as the mental and physical stimulus given them, a stimulus almost as important as the will to live in the recovery of a patient, according to medical men. Its importance can scarcely be realized by persons who have not had contact and experience with handicapped persons. In some cases, indeed, the knowledge and skill becomes later of actual and sometimes commercial value; a girl who was

fond of plants was set up in business, after she had made it a hobby, by her wealthy father; she is well known among the trade in her own state.

Though the number of retarded cases throughout the country is large, the problem is relatively a small one in individual communities and may be overlooked. Lending a hand in such cases, individually or through an organization, is open to most nurserymen and gardeners.

CONSUMER CASH

Business reports of late show striking contrasts. On the one hand, statistics reveal that employment is the highest on record, with wages and consumer income likely to set a new total for the year. Although consumer debt, due to installment purchasing, is at a record high, savings banks have their largest total of the public's money, due principally to the energetic advertising of the savings and loan associations, coupled with the high interest rate.

On the other hand, recent figures show declines in automobile production, though sales are running ahead of a year ago. Similar cutbacks have taken place in steel production and in a few other lines, though by no means in all.

Apparently the consuming public, with a record amount of cash on its hands or in its pocketbooks, is selective and careful in its buying. The decline in the stock market has had a subduing influence. The talk of inflation has subsided. Living costs are no longer rising. The average man now feels that a dollar put in the bank will buy as much when it is taken out as it does now; there no longer is a flight from money into merchandise.

Hence the public not only is selective in its buying, but requires more urging. Witness the advertising columns of the newspapers. The signs are clear that nurserymen must push for business this spring, and push hard to bring in the customers as they wish to have them come.

W. H. HICKS, former owner of Hicks Nursery, Indianapolis, Ind., and Donald Newman, who was associated with Mr. Hicks in the nursery, have joined the Hillsdale Landscape Co., Indianapolis, as general manager and garden store manager, respectively.

Chicago World Flower Show

Nurserymen's Exhibits Win Top Attention and Awards at Annual Spring Event

By Irving G. Moore

As the occasion to present their second world flower and garden show at Chicago, the sponsors chose the initial days of the calendar spring season, opening the event at the International Amphitheater March 19 and recording a crowd of 30,000 on Sunday, March 20, the actual first day of spring. Blustery weather undoubtedly urged many to seek within the show the belated outdoor charms, and they were rewarded by a flower-filled, well-staged exhibition that portrayed many possibilities for gardening skill at all levels. Ways to conduct the hobby with both labor-saving equipment and eye-catching plants drew attention to the numerous commercial exhibits, and booths manned by experts in specific plant fields disseminated helpful information to inquirers.

Visitors interviewed by newspaper reporters the opening day gave three main reasons for attending, subsequently published: To obtain information on how to improve home grounds, to learn what to plant and how to grow it and to see signs of spring.

The Chicago Horticultural Society again sponsored the event, in cooperation with several garden club groups, the Allied Florists' Association of Illinois and the Illinois State Nurserymen's Association. For the second year, Harold O. Klopp, Palatine, Ill., planned the over-all design of the show, assisted by Don Pearson. Dr. R. Milton Carleton, Vaughan's Seed Co., Chicago, immediate past president of the Chicago Horticultural Society, was general chairman.

Spectacular Central Arena

Spectacular gardens and flower features filled the 40,000 square feet of the central arena that greeted visitors entering at the main gate. An oval island facing the doors divided traffic to left and right for passage down north and south aisles, through plantings lining the routes on both sides, to a circular island display at the opposite end of the hall. There a waterfall cascaded 22 feet down a hillside in a colorful setting of azaleas and camellias in evergreens, splendidly executed by the Chicago park district and given a gold medal.

After circuits of the arena to see the varied effects presented there,

visitors had both a north and south hall adjoining to survey and find more gardens and both commercial and amateur flower arranging displays. In these areas, too, were the many informational booths.

The entrance planting was a modern tulip garden, staged by Vaughan's Seed Co. and designed by William Rose & Associates, Hinsdale, Ill. At one end, an outdoor living area was shown under a trellis having translucent plastic panels across the top to give some sun and weather protection. Hanging baskets held plants with flowers matching the color of the cushions on chairs about a table. At the opposite end, beyond a grassy expanse and a piece of sculpture, an arrowhead planting of choice tulips had sidewings interspersed at intervals with vinca and Ageratum Riverside. Tulip varieties included White Parrot, Albino, Mamassa, Desiree, Her Grace, Cordell Hull, Alberio and Rose Copland.

Ornamental Growers' Feature

The entire north side of the arena was occupied by the feature staged by the Ornamental Growers' Association of Northern Illinois, designed by Ralph Synnestvedt & Associates, Inc., Glenview, Ill. This show entry

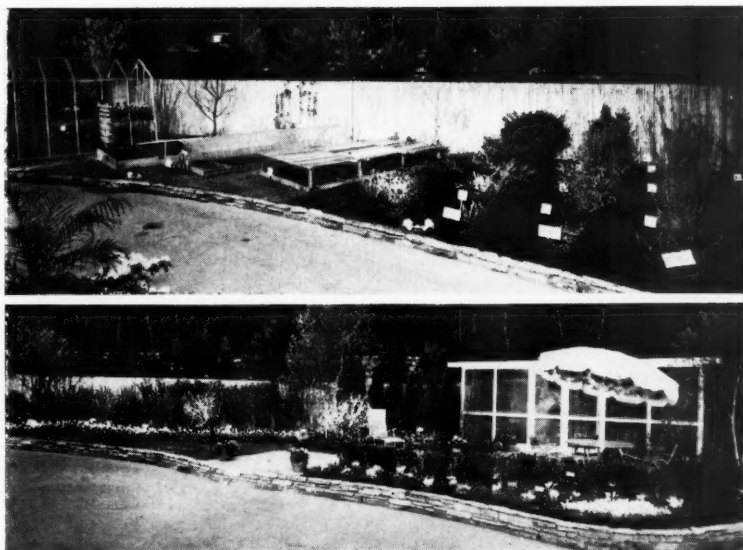
won the large silver trophy that was the Governor Stratton award for top excellence in providing useful information to homeowners and a gold medal of the Chicago Horticultural Society. The planting covered almost an acre of space, featuring trees, shrubs and evergreens that would thrive in northern Illinois soil and climate. Labels identified all plants.

Shows Nursery Process

A large part of this exhibit was made up of material to show the growth of plants. Use of a greenhouse, hotbed, mist bed (operating) and lath-shaded frame for propagating purposes was demonstrated at one end of the 200-foot exhibit. Then came 12 rows of plants, each including a half-dozen examples varying from the first salable size to the mature specimen size when 8 or more years old.

Included in the demonstration beds were the following: *Taxus cuspidata*, *Weigela Bristol Fairy*, *Forsthia Lynwood Gold*, *Crataegus crusgalli*, *Juniperus pfitzeriana*, *Juniperus chinensis*, *Taxus capitata*, *Malus zumi*, *Thuja pyramidalis*, hybrid lilac, *Prunus tomentosa* and *Viburnum americanum*.

Continuing the planting was a



Two sections of an extensive prize-winning educational display made by the Ornamental Plant Growers of Northern Illinois at the recent Chicago flower show: Top, propagating facilities and several groups of like plants recommended for area arranged to show different age sizes; bottom, landscape use of plants about a patio.



Display made by Illinois State Nurserymen's Association at Chicago flower show last month to tie in membership facilities with the "Plant Illinois" program.

landscaped area about a stone patio fronting screened porch doors. Groups of weigela and lilacs edged with tulips formed the back border leading to the terrace, which held a sunshaded table with chairs. Foundation plantings featured large-leaved winter creeper and clumps of yellow, white and purple crocuses in myrtle, with flowering plum marking the garden entrance and Japanese barberry for a low hedge effect. Plants in tubs decorated the walk and terrace.

Reception Scene

Facing the growers' display, on the opposite side of the aisle, Harold O. Klopp designed a garden setting for a wedding reception, for a Chicago department store and Amling's Flowerland, Maywood. There was a terrace at the center, and at one end a patio showed a wedding cake. White columns were placed at intervals along the back, and long rows of white azaleas and white caladiums extended across the front, interspersed with several tall urns, each of which held several hundred long-stemmed red roses. A gold medal went to this entry.

Along both sides of a center aisle, Vaughan's Seed Co. staged a "period piece" garden in baroque manner, to win a gold medal. This setting was designed by Ira Berke & Associates, Villa Park, Ill., to display geranium and ageratum plantings in semicircular sectors intermingled in identical arrangement on both facing sides. Ageratum Riverside and Geraniums Irene and Fiat flanked tall copings that were fronted with sculpture, and at intervals were placed yaupon holly plants trimmed in topiary form.

The aisle planting led into the rose garden which won a gold medal and the horticultural society's bronze

medal as best of show for the Jackson & Perkins Co., Newark, N. Y. Here, inner and outer rings, separated by lawn and accented by birch and evergreen trees, held splendidly flowered plants of the firm's recent introductions. Armand R. Tibbits, Greenwich, Conn., designed the display. Conspicuous were Hawaii, Arlene Francis, Enchantment, Kordes Perfecta, White Queen, Fashion, Fashionette, New Yorker, Golden Masterpiece, Pink Dutchess, White Bouquet and Spartan. Eight different varieties of tree roses were spaced about the circle, which was entered by steps and a winding white path. Two smaller beds of roses at either side of the center aisle, facing the circular garden, were fronted with wishing well pools into which visitors tossed coins. The J. & P. commercial booth won a silver medal for artistic effect.

Along the south aisle of the arena, one end near the entrance held a large planting, designated a focal garden, staged by the Charles Klehm & Son Nursery, Arlington Heights, Ill., with a design by Harold O. Klopp. This gold-medal garden could be developed on a large estate, or parts of it could be applied on smaller scale in less space without loss of charm. At the center was a fountain terrace backed by birch and yew. White lilacs in bloom formed the background at one side, and forsythia marked the other side. Juniper canaerti and hetzi, Koster blue spruce and flowering azaleas formed an end group at the right. Peonies in bud and bloom extended across much of the front. At the left, the end planting included flowering clematis, white quince, dwarf Korean lilac, Viburnum carlesi and Coral Beauty dogwood.

At the left of the Klehm exhibit was one by Noers Floral Display

Service, Chicago, which was designed to illustrate a garden that required little maintenance. In this gold-medal display paved areas eliminated much mowing and edging, ground covers eliminated weeding, use of slow-growing plants lessened trimming, retainers replaced unhandy slopes and a colorful fence replaced deep shrub borders. Specimen plants having a 12-month appeal were also used. The plantings were made about a central terrace having a fountain and furniture overlooking various levels. Judges gave the entry a tri-color ribbon.

Facing the Klehm and Noers gardens was a Hawaiian scene, contrasting a traditional Polynesian hut at the water's edge with a modern lanai, a cascading pool and plants with many textures. Tropical plants were used throughout. This setting was planned for A. Lange & Sons Florists, Inc., by Harold O. Klopp and received a gold medal.

Illinois Association Map

An attractive exhibit in a hall adjoining the arena gave visitors some idea of the state coverage represented in the membership of the Illinois State Nurserymen's Association. A Masonite cutout in the shape of the state of Illinois stood between two scroll-like end panels. On the map were located all cities in which one or more members of the association are located. Each location was also marked by an electric light. Representing 183 members were 105 lights, for which six wiring circuits were used. In the Chicago area, 44 numbers were printed, and alongside a keyed list indicated the suburban towns represented by the numbers.

Fronting the Masonite display was a planting that held clumps of colorful tulips and crocuses in a ground covering of *Lonicera yunnanensis*, while at the other side of the planting, Pfizer junipers, taxus and a flowering crab apple surrounded a Featherock-outlined pool. Thousands of "Plant Illinois" booklets were distributed to the public by representatives of the organization who manned the exhibit, which won a medal for information value.

The Morton Arboretum, Lisle, planned a nature trail, a winding walk between high walls painted to depict the changing seasons, with peepholes through which to observe small dioramas of seasonable nature.

The University of Illinois department of horticulture prepared an educational exhibit describing career opportunities in the various areas of horticulture. A part of the display

[Continued on page 85]

Record Crowds at New England Show

Total of 200 Commercial and Amateur Exhibits Displayed at Revere, Mass.

The 89th annual New England spring flower show gave promise of a highly successful run with a record-breaking attendance the opening day, Sunday, March 13. The 25,000 attendance at that time necessitated ceasing ticket sales for two hours at the Wonderland park site of the show, Revere, Mass., where the exhibition was scheduled to run until March 20.

Oliver Wolcott, president of the Massachusetts Horticultural Society, which sponsored the event, opened the exhibition. Assisting him were Louis Webster, of the Massachusetts department of agriculture; Harold D. Stevenson, chairman of the committee on exhibitions; Frank Sellner, landscape architect, and Mrs. Percy Merry, exhibitor and lecturer. The spacious grandstand and clubhouse held approximately 200 exhibits and displays by professional as well as amateur gardeners.

Winner of the Massachusetts department of agriculture trophy for the best exhibit staged by a commercial grower was Kelsey-Highlands Nursery, East Boxford, Mass., which also gained a first prize and a gold medal with the showing. The scene depicted a trickling brook traveling for a distance over rocks and ending in a woodland pool, with plantings holding huge Carolina rhododendrons, birches, dogwoods, rose daphne, white bleeding hearts, ajuga and shortia. Seth Kelsey designed the setting.

Naturalistic Setting

A naturalistic setting won the coveted president's cup for the most meritorious exhibit for Weston Nurseries, Inc., Hopkinton. In this scene were a running brook and daphne and primroses in front of laurel and pink dogwood. Designed by Eddie Mezzitt, this display also received a gold medal and a first prize.

Nearby, Marinus Vander Pol, Fairhaven, Mass. (Frank Sellner, Framingham, designer), had a summerhouse with weathered shingles. This was highlighted by tree peonies set in tubs, pink wistarias, rubrum lilies, tritonias and white heather. Paths of white oyster shells sparked this silver medal and first-prize winner.

A suburban rock garden was fashioned by Alexander H. Heimlich,



Littlefield-Wyman Nurseries, Abington, Mass., received a first prize and a silver medal on this planting about a shed and patio equipped for a cook-out, at the recent New England exhibition held at Revere, Mass.

Woburn, Mass. Grass paths ran among boulders and were lined with alpenes and banked with single and double dogwood. Featured were a pool and waterfall, with a path that led to the top of the falls. Besides a gold medal and a first prize, this exhibit received the gold medal certificate of the Pennsylvania Horticultural Society for an exhibit of special merit for stimulating an interest in horticulture.

Azalea Award Winner

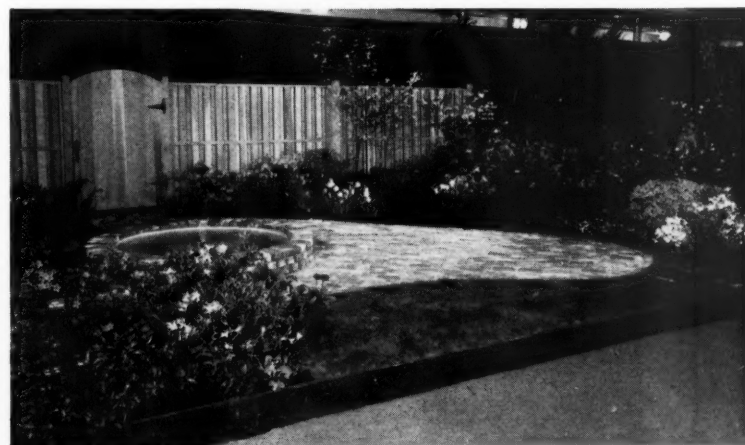
Cherry Hill Nurseries, West Newbury, Mass., depicted an azalea garden, with a crushed stone path leading to a figurine and side plantings

of azaleas and rhododendrons in a semiformal setting. The Beatrix Farrand silver bowl for the best exhibit of azaleas was awarded this feature, along with a silver medal and a first prize.

Prize Shore Planting

A seaside planting by Bay State Nurseries, North Abington, Mass., was given a silver medal and a first prize. By the sand dunes could be seen suitable material, such as shore pine, junipers, a collection of alpenes and bulbs in bloom.

An educational exhibit by the Arnold Arboretum, Jamaica Plain, Mass., featured examples of tree



Planting about a pool site which won first prize and a gold medal for Old Colony Landscape Service, Weymouth, Mass., at the New England flower show.

pruning, trunk splitting and strong and weak crotches and received a first prize.

Leading to the main grandstand building there was a series of gardens. The first was designed by Littlefield-Wyman Nurseries, Abington, Mass., featuring a shed and patio, with facilities for a cook-out. The plantings consisted of rhododendrons, azaleas and pachistima. A silver medal and a first prize went to this display.

Patio Garden

A gold medal and a first prize were awarded to Bartlett Gardens, Hamilton, Mass., for an informal patio garden consisting of a wooden shed, modern garden furniture, a side pool complete with figurine and plantings of English ivy and tulips.

Old Colony Landscape Service, Weymouth, Mass., received a gold medal and a first prize for a circular pool in a brick walk, with clumps of azaleas at three points and other woody material in bloom about the border.

Attention was drawn quickly to a stone pool in a sunken informal garden by Arthur Leiby's Nursery, Weston. The naturalistic planting

included pink dogwoods, pines, azaleas and leucothoe, with paths of tanbark. A gold medal and a first prize were won for the effect.

A spring garden by Pine Gardens, Milton, Mass., took a first prize. The display showed wrought-iron furniture on flagstones and white granite chips and massed tulips and azaleas against a wall of pine and dogwood.

The American Begonia Society had an exhibit of all types of begonias, for which it received a bronze medal and a first prize.

COLUMBUS GARDEN SHOW

Flowering shrubs and trees and thousands of spring bulbs brightened the Horticulture building at the Ohio state fairgrounds, Columbus, O., during the fourth annual garden and flower show, held there March 5 to 13.

Sponsored by the Columbus Landscape Association and the Columbus Allied Florists' Association in cooperation with Dispatch Charities, Inc., the show featured seven large gardens displayed by members of the landscape group. These were Slemmons Gardens, Worthington, and the Burwell Nurseries Co.; War-

wick's Landscaping & Garden Store; Triangle Gardens, Inc.; Ongaro's Nursery & Garden Center; Stephan's Garden Center, and the Oakland Nursery, all of Columbus.

Five smaller gardens were exhibited by Olenwood Gardens Nursery, Worthington, and Evergreens, Inc.; Fozzy's Nursery; F. & F. Merullo Landscape Service, and Berwick Nurseries Co., of Columbus.

Adding to the interest of the show were the educational displays set up by the Ohio State University department of horticulture and several municipal and state agencies. A program of educational talks, demonstrations and films, arranged by David H. Snyder, Triangle Gardens, Inc., was presented each afternoon and evening.

OPERATIONS of Dutcher-Nassif Landscaping, Des Moines, Ia., were recently expanded to include a new garden center in the Johnston area, on the Merle Hay road.

OAK HILL NURSERIES is the name given by Clyde A. Weber and James P. Greaves to the retail business they are starting at Pittsburgh, Pa.

Move 30-Year-Old Deodar Cedar

In this day when many nursery firms are thinking in terms of selling as many items in containers as possible, without much thought being given to growing and selling large trees, the selling and moving of a 39-foot tree become news. This is all the more true when one realizes that the tree moved was a 30-year-old cedar, *C. deodara aurea*, a

difficult tree to move and yet keep alive.

The tree in question was grown by F. A. Doerfler & Sons, Salem, Ore., a firm specializing in choice rare stock. Supervising the big job were F. A. Doerfler and his son, Wallace. In charge of the move was J. L. Galligan, supervisor of the Lloyd Corp., the firm which bought the

tree for placement in the Lloyd firm's planting area at Northeast Ninth avenue and Multnomah street, at Portland. Thus the huge tree, weighing some 14,000 pounds, was moved nearly 50 miles from where it had been grown at Salem.

Preparation for the move of the big tree had begun years ago, long before its eventual owner was known. According to Frank Doerfler, the tree had been root-pruned many times during its life, a process which caused it to form a greater number of small roots in a more restricted area. Without the root pruning, he said, the plant and its root ball would have weighed 34,000 pounds or more, and there would have been little chance that it could have been successfully moved. The roots normally are rather thin and break off quite easily, he said.

The root ball, which was eight feet in diameter, was covered with canvas, completely wrapped and tied in a neat ball, despite its huge size. A large derrick was used to raise the tree from its growing place onto the truck on which it was hauled. The same process was used in reverse in Portland when the tree was replanted. Twelve men were used to help with the digging and loading, and 20 men were used to unload and replant it. Only one small branch was cracked in moving.

C. H. P.



Derrick removal to truck of a 7-ton cedar with an 8-foot ball and 39-foot height grown many years at a Salem, Ore., nursery and purchased for use in an industrial landscape planting at Portland, 50 miles away.

Long Island Nurserymen Stage Show at Westbury

By Donald W. Griffiths, Jr.

The garden show that has become an annual undertaking of the Long Island Nurserymen's Association had to be moved to larger quarters this year because of the increased attendance anticipated, the need for larger parking facilities and the increase in the number of exhibits. The facilities of the Roosevelt Raceway, Westbury, L. I., provided the answers to these problems for Mark Eaton, show manager. If anyone doubted that the Long Island nurserymen could stage a professional show and was privileged to attend the exhibition at the raceway February 27 to March 8, his doubts were dispelled.

The show started with record attendance figures until the worst snow storm in 12 years hit Long Island. This storm was also responsible for a 2-day extension that postponed the announcing of the best in show award by popular vote of the public. This was the second year that there were no awards presented other than the best in show.

Family Interests Met

Mary and Peter Costich, Westbury, worked closely with Mark Eaton while doing a complete job on publicity and arranging events for all members of the family. Among the many interesting activities, a day was set aside for school children to attend with their teachers, lectures were scheduled on flower arranging, a show photo contest was held, a fashion show was given for the women and lectures and films pertaining to gardening problems were scheduled throughout the week.

Saturday, February 27, Mrs. William A. Medesy, wife of the president of the State University Agricultural and Technical Institute, Farmingdale, L. I., N. Y., cut the ribbon that opened the show officially. The nurserymen and all other participants of this 14th annual event should be proud that they were able to share in presenting two and one-half acres of spring color by the use of 28 garden exhibits to the people of Long Island. It is the belief of the officers and members of the L. I. N. A. that the most difficult hurdles have been crossed and the annual garden show has come into its own on Long Island.

In addition to Mark Eaton and

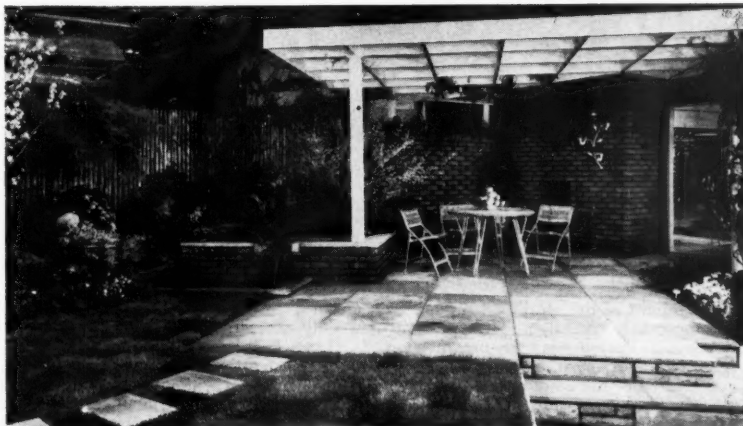
Peter and Mary Costich, George Hren, president of the L. I. N. A., and Don Pollitt, vice-president of the L. I. N. A. and treasurer of the show, deserve much credit for their efforts. This year, as in the past few years, the plants were forced into bloom at the planting field campus of S. U. A. T. I., Farmingdale, N. Y.

After much careful tabulation, the display by Landscape Associates of Brookville, L. I., was voted best in show. The setting showed a mountain stream and garden, with the stream flowing over large boulders from a height of six feet and at the rate of 1,000 gallons of water per hour. The designs made use of native plant material and Featherock, while an expertly designed and constructed free-form patio of Virginia

greenstone flagging provided an ideal location from which guests could view this woodland setting.

An outdoor living room was the theme of the second most popular exhibit, which was also the largest in the show, staged by the Alley Pond Nursery, Bayside, L. I. A well-designed dining patio began at large glass doors and looked over a garden area into a pine-shaded nook that partially hid a hammock. The pool feature near the paved patio by the house contained water tinted a light green, which presented a pleasing, cooling effect.

The students of ornamental horticulture at the institute, in third place, presented an exhibit under the direction of Prof. Alex Takacs that was a low-budget, do-it-yourself garden. A small terrace, paved with slate and covered with redwood lattice, provided an excellent vantage point from which one could view a small (30x30-foot) garden that had a small pool as the main point of interest. The plant materials used—largely dwarf plants—were kept in scale with the entire property. Spring bulbs, azaleas, flowering dogwood, flowering crab apples and



Largest exhibit in the Long Island show was this outdoor living room displayed by the Alley Pond Nursery, Bayside. Steppingstones led from a dining patio (above) around a naturalistic rock planting to a shaded nook (below).

rhododendrons provided the color. Two other fine educational exhibits were presented by S. U. A. T. I.

The floriculture students designed and maintained an exhibit for the Long Island Flower Growers' Association and a collection of hybrid lilies from the gardens of Jan de Graaff, Gresham, Ore., world-famous lily specialist, was placed in a colorful exhibit under the direction of Prof. William Bowden, of the Planting Fields campus of the department of ornamental horticulture.

Among the other educational exhibits was a fine display by the department of parks, Nassau county,

Long Island, which contained 250 roses, including the new hybrid tea, Hawaii. The exhibit, entitled "A Salute to Hawaii," contained a curved white brick wall and a bamboo garden house.

The Nassau and Suffolk county extension services and the Cornell University ornamental research laboratory provided an answer booth for gardeners' questions. The purpose of the exhibit was to inform the public how to contact the proper source for information.

S. Scherer & Sons, Northport, L. I., aquatic specialists, exhibited their usual popular garden. Walt Scherer combined viburnum, ame-

lanchier, bayberry and blueberry plants with rhododendrons, mountain laurel and leucothoe to present a woodland stream and pool garden. The stream flowed at the rate of 600 gallons per hour, and the irregular pool contained water lilies and other aquatic plants.

Bulk's Nurseries, Babylon, L. I., presented a woodland garden with a quiet stream, pool and a brick patio. A seat wall, shaded by trees, presented a restful spot from which one could view the garden and enjoy the variety of plant material, including a recently introduced weeping Japanese crab apple, a paperbark maple, and a large, spreading pine. The herbaceous plants were all native to the south shore of Long Island and included Jack-in-the-pulpit, ferns, marsh marigolds and lady-slippers.

Homeowners' Garden

Anton Hren Nurseries, Huntington Station, L. I., staged an exhibit that many homeowners could reproduce. The center flagstone patio was recessed and bordered by a stone retaining wall that enhanced the planting of dogwood, Japanese flowering cherries, azaleas, bulbs and other flowering plants. The garden was effective with its simplicity of design and good use of *Taxus media* hreni as a backdrop for yellow daffodils.

Lewis & Valentine, Greenvale, L. I., featured an intimate garden with a brick retaining wall and a canopy of trees, which shaded most of the garden. A bamboo fence added light to the garden, and the branches of the trees cast interesting shadows throughout. The plant material was native and, for the most part, deciduous.

Hicks Nurseries, Westbury, L. I., presented a woodland garden that contained a waterfall, brook and pool. A path that led over the brook presented a natural woods effect. The curbing faced plantings of sedum, thyme and ivy. Rare woods plants, herbaceous plants, dwarf evergreens and ground covers were used.

Goldberg & Rodler, Hempstead, L. I., exhibited a garden that took advantage of every inch of an area 32x32 feet. The main feature was a raised angular redwood deck that was lighted so as to enhance the entire design. Several unusual plants, such as a corkscrew willow and tree laurel, were used effectively.

Homestead Gardens, Rockville Centre, L. I., presented a large Japanese garden with two pools and

[Continued on page 144]

SOUTHWEST TREE AWARD TO PARK SUPERINTENDENT



A highlight of the southwest shade tree conference held recently at the University of Arizona, Tucson, was the presentation of an award of merit to Gene Reid, superintendent of the Tucson city parks system. Mr. Reid is shown here (second from right) as he received congratulations from Roy Wells, president of the Western chapter of the National Shade Tree Conference, Culver City, Calif. With them are Keith Davey (extreme left), N. S. T. C. regional coordinator, San Francisco, and Lee Burkhart, chairman of the southwest shade tree conference, University of Arizona.

The award of merit is presented to persons who have achieved recognition for initiative in developing appropriate tree plantings in their community and for maintaining trees according to high standards of the arborist industry.

Mr. Reid has won wide acclaim for beautifying the parks and the parkway dividers on the main thoroughfares in the city with appropriate tree and turf plantings. He has done much to stimulate community interest in the development of the Randolph park recreational area and many other park sites in Tucson's newly developed subdivisions. His rehabilitation program, in which prisoners are given an opportunity to work on horti-

cultural projects in the park system, is worthy of recognition.

Gene Reid was active in landscape nursery operations at the age of 15 and was associated with his father in this business until 1936. He then was employed by Pima county and the city of Tucson and in 1947 was appointed superintendent of the city parks department. He now maintains a park system with a total of 850 acres. He has also recently established a 1-acre rose testing garden to include 300 varieties at Randolph park in cooperation with the horticulture department of the University of Arizona. He has been testing various strains of Bermuda grass with the hope of obtaining a strain that is evergreen in Tucson.

Mr. Reid is actively engaged in a tree testing program. Approximately 80 species of trees introduced into the park system program are proving adapted to the area. These plantings are helping to educate the public to the advantages of using selected trees for beautification.

In recognition of his accomplishments and initiative, Mr. Reid is also to be honored with the merit award of the Western chapter, National Shade Tree Conference. This presentation will be made at the conference to be held at Long Beach, Calif., May 8 to 11.

Department Store Nursery Thrives at San Francisco

By Richard B. Kilner

A favorite topic of discussion these days is competition from non-nursery outlets, such as gas stations, variety stores and department stores. Most often, these outlets carry a number of plants and/or supplies, do not offer service and sell at a lower price, depending upon rapid turnover to make up for the lower profit margin. However, in San Francisco, the Roof Garden Nursery has carried on a full-scale, legitimate nursery operation on the fifth floor of the Emporium department store for over 30 years, selling at normal or higher-than-average prices.

The Roof Garden Nursery was originally started as a concession, as were most of the departments in the true department stores of bygone years. During the war, the Emporium took over the operation itself, but later turned it back to the operation of an independent nurseryman. For the past 10 years, the proprietor has been Charles J. Burr, well known northern California nurseryman.

There are many interesting differences between such an operation and the average retail nursery. However, Mr. Burr is quick to point out that, by and large, the operations are the same as for any nursery, and their success depends upon using good, efficient business practices.

The physical facilities are, of course, different from those of the average nursery. The entire nursery operation extends over more than

8,000 square feet, with about two thirds of that area outdoors. The store, which is built to resemble a greenhouse, has about 2,500 square feet, with the remaining area for storage. The climate in downtown San Francisco is mild, to begin with, ranging between 50 and 80 degrees. Furthermore, the nursery is surrounded by taller buildings, so that it is quite sheltered from wind. Mr. Burr finds this climate good for the plants, but it does create a bug problem, since there is no cold spell. A monthly spray program is followed, and a more serious problem is minimized only by the rapid movement of plant material.

The Roof Garden Nursery carries a complete line of plants and supplies, ranging from seeds, bedding plants and fruit trees to fertilizers, power tools and incinerators. However, the nature of the operation and location induces the firm to feature house plants, plants with color and container-grown plants. These are appropriate for the apartments and small houses in the surrounding city of San Francisco itself.

Large Trading Area

However, an interesting feature of the operation is that its trading area is extremely large—ranging from Fresno in the south, to Redding in the north—because the trading area of the nursery is the same as that of the Emporium. The Roof Garden Nursery has the opportunity

to tie in with the department store advertising. Thus, it can reach 650,000 people in the Sunday garden pages of the San Francisco Examiner.

Another positive feature of this operation is the fact that every charge account customer of the Emporium is a potential customer for the nursery. The nursery is able to send out special announcements in the form of envelope stuffers. The conveniences of a charge account with easy terms, ordering on the telephone and ordering items when one is doing other shopping offset some of the disadvantages of the location.

It is interesting to note that the Roof Garden Nursery stocks more big-ticket items, such as power tools, than the average nursery. This is because people are used to buying higher-priced items at the department store and, moreover, they can take advantage of the low-payment credit terms offered by the Emporium. As far as lawn mowers are concerned, many more hand mowers are sold than power mowers, because of the necessarily small lawns in the San Francisco area.

Comparative Costs

About two thirds of the business is with personal shoppers; about 25 per cent is telephone, and the remainder is mail order. It is not surprising that delivery is a higher-than-average expense with this organization. In fact, delivery and advertising are the only two expenses that are higher than the average nursery operation experiences. Most other costs are lower, with the payroll being about the same.

Heavy items that cannot be carried out, such as large redwood tubs, are priced to include delivery. On

[Continued on page 64]



Philodendrons and chrysanthemums at information booth at rooftop shop's main entrance. Sign points out featured item.



Upper floors of Emporium department store in background; lower rooftop garden shop, left; lath area, right.

Tips for Better Landscapes

Summer-Flowering Shrubs and Trees

By Clarence E. Lewis

Department of Horticulture, Michigan State University, East Lansing, Mich.

Part II

Many plants carry their flowering period from one month into the next, and June receives much of its color in this manner. Some shrubs and trees produce flowers during the same month each year, and some on almost the same date year after year. The latter is particularly true during the summer period, but far from a reality in the spring months.

Shrubs that are seldom thought of for their flowers are the cotoneasters. Since the fruits are more colorful, some nurserymen think of the flower simply as a means of producing the ornamental fruits. Flowering occurs in May for some species, but there are several that show interesting cascades of flowers in June.

Of the low-growing forms, *Cotoneasters horizontalis*, *adpressa*, *adpressa praecox* and *apiculata* often show small pink flower buds that open white. Of the taller-growing types, *Cotoneasters divaricata*, *salicifolia* and *simonsi* often produce similar flowers at this time.

Early to mid-June flowering is the general rule in the northern states, but farther south (even New York city), May flowering is more common, except for *Cotoneasters simonsi* and *salicifolia*. These two may possibly, in some instances, bloom in

early July in the more northerly hardiness areas.

The indigo bush (*Amorpha fruticosa*), with its purple-blue and orange spikes of flowers, blooms ordinarily during early to mid-June in areas comparable to East Lansing, Mich., but in New York city late May to early June flowering is not unusual.

This shrub, which is native from Connecticut to Minnesota and as far south as Florida, is generally thought of as a loose, gawky-looking specimen that has no great landscape value. But if it is pruned drastically about every two or three years it has a place in the landscape.

The later-flowering lead plant (*Amorpha canescens*), which is of a much smaller stature but bears similar flowers, usually blooms in late June. It, too, is not a plant that will be readily accepted by the public, but it is interesting because of its small gray leaves.

Top tender in most of our northern states are *Indigofera kirilowi*, *I. potanini* and *I. amblyantha*, of which the last-named sometimes reaches a height of five feet, possibly six. The most valued, landscapewise, is the Kirilow indigo because of its growth habit and willingness to fill in after top injury. In fact, it may be advisable to give it a heavy top prun-

ing each spring so that it does not exceed 18 to 24 inches, even if the winter does not do the job.

It spreads by underground stems and consequently makes a good cover, usually about two to three feet high. The rose-colored flowers are profuse during early to mid-June and often later. There is also a white-flowering form that responds to the same treatment.

The mid-June to late June yellow trumpetlike flowers of southern bush honeysuckle (*Diervilla sessilifolia*) is seldom used or considered for landscape plantings. It does a reasonable job of holding a bank and can be employed in fair-size groups. Native to the eastern states, it must be thinned quite regularly (every other year) in order for it to make its best appearance. Even though it spreads by underground stolons, it seems unable to compete successfully with some shrubs.

Tanaka Stephanandra

A shrub that is not rare but is seldom seen in the trade is the Tanaka stephanandra (*Stephanandra tanakae*), which puts on a reasonably good flower show in mid-June and sometimes carries into July. The white flowers are much more prominent than those of the better known *Stephanandra incisa*, and its foliage

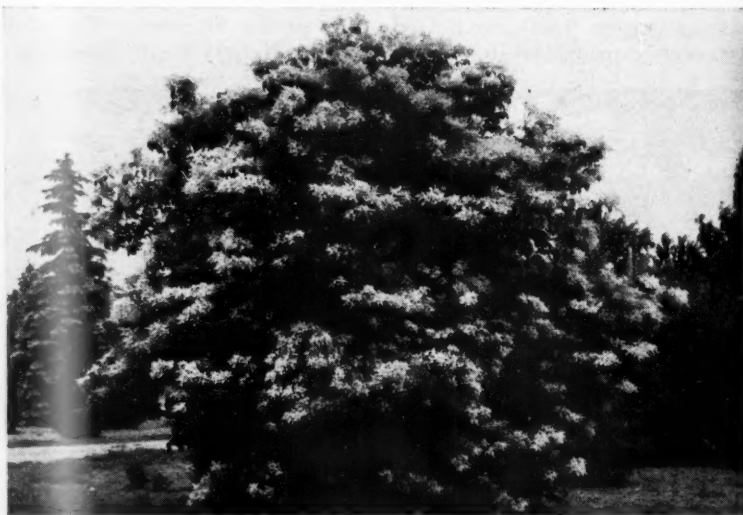


Illustration A (left)—The Japanese tree lilac produces its large, creamy-white flower clusters later than other lilacs. Illustration B (right)—Attaining a height of 25 to 30 feet, the tree lilac can be used as a large shrub or small tree.



Illustration C—The common name, Japanese snowbell, well describes the flowering of this excellent small tree.



Illustration D—The large-leaved fragrant snowbell is much different from the Japanese species.

is about twice the size of incisa leaves.

It has a spreading nature and, because of its noncompetitive root system, might be favorably grouped with *Diervilla sessilifolia*. The *Tanaka stephanandra*, too, needs a good pruning every other year. Its deep-cut leaves are a welcome relief from the more ordinary leaves of many other shrubs.

The latest-flowering native rhododendron is the rosebay rhododendron (*R. maximum*), which usually blooms during late June or early July. In one recorded instance in the New York city area, the shrub bloomed July 2 and continued to flower until July 18.

The Japanese tree lilac, which can be grown as a large shrub or a small tree, flowers at varying times, depending on its geographic location. The creamy-white flowers are not so pleasingly fragrant as the various

so-called French hybrids, but nevertheless can be a valuable addition to some plantings.

Illustration A shows the shape of the flower cluster, which is usually larger than those of most other lilacs, and illustration B portrays the overall flowering effect of the entire plant. The leaves are larger than most lilacs', and the cherrylike bark makes one wonder if it really is a lilac.

It has flowered in metropolitan New York as early as June 10 to 15 and lasted until June 25; near Philadelphia it has come into bloom June 3. In some of the areas where spring comes later, this tree may not flower until about June 20 and may be still flowering by July 4.

Excellent Small Trees

Several fine small trees have been too long overlooked by the homeowner and the landscape architect.

One of these, *Styrax japonica*, bears its white flowers on the undersides of the branches, as shown in illustration C. For this reason it may not be quite so spectacular as some other flowering trees. It is truly well shaped, however, with its short main trunk and broad head.

The branches are clean and finely lined, and the leaves clean, shiny and of a medium size that makes them suitable for many plantings. A frequently advanced objection to the use of *S. japonica* is that it is impossible to transplant once it reaches any appreciable size, and this I must deny after having seen sizable trees moved successfully.

Its flowering time varies; it has been as early as June 1 near Philadelphia, but is usually about June 5 to 8 in the New York city area. In East Lansing last spring it bloomed June 10. In this northerly area a pro-

[Continued on page 86]



Illustration E — The large, camellia-like flowers of the showy stewartia can be a valuable addition to any garden.



Illustration F—The mottled bark of the Korean stewartia is similar to that of the Japanese and showy species.



Illustration G—Most unusual and attractive are the flowers of the little epaullette tree.

Alfred L. Boerner Botanical Gardens

The establishment of the Alfred L. Boerner Botanical Gardens was the result of consistent adherence to an ideal. Some 30 years ago, Charles B. Whitnall, known as the father of the Milwaukee county park system, became interested in obtaining the land for a large rural park. He and Alfred L. Boerner, at that time the county landscape architect, frequently visited the region, 10 miles southwest of Milwaukee, and it became the dream of Mr. Boerner that a portion of the land should be devoted to the development of a botanical garden. The major portion of the park land was acquired during 1929 and 1930. It comprises approximately 655 acres.

During 1934 the federal government developed Greendale as one of its "greenbelt housing projects," situated to the east of Whitnall park, and dedicated 800 acres along the Root river to Milwaukee county for park and parkway purposes. Lying directly east of Whitnall park, this land functions as an addition to the park, making a total ownership of 1,455 acres. About 450 acres of Whitnall park is devoted to the gardens, which include the arboretum. The north half of the park, or approximately 300 acres, is the more highly organized portion of the botanical gardens. All of this land is protected by surrounding residential zoning, eliminating any chance of air pollution by noxious gases generated by industrial use detrimental to growing plants.

Whitnall park is a superb piece of typical Wisconsin terrain. Through it flow two spring-fed brooks, bounded on either side by wooded hillsides. The climax forest in the area is the oak-hickory association, but there also are many sugar maples.

Planting was started in 1932 and is arranged in ecological groups, that is, in natural association, and also according to genera or family groups for more scientific study. New and untried plants are tested for hardiness, disease resistance and general utility. The collections will ultimately contain specimens of all native and exotic plants hardy in this region.

All plants are charted and cataloged, and scientific records are kept through the life span of each. The plant is labeled to indicate its botanical and its common name, the date of acquirement, place from where acquired and the location number. These numbers correspond to a record card file number kept in the administration building and devoted exclusively to that particular item. All plants are also located on a plan so that in case any of the labels are destroyed the variety can be checked back and accurately re-labeled.

Two Sections in Gardens

The botanical gardens are composed of two sections. Section 1 is the arboretum, which includes trees and shrubs. Section 2 comprises the herbaceous plantings. The herba-

ceous material is grown in the formal garden area immediately adjacent to the administration building. The central, or walled garden shows the use of lawns, hedges, ground covers, specimen shrubs, trees, flowers and pools and fountains in a formal manner.

The mall to the south of this wall garden contains the iris, tree peony, phlox and chrysanthemum collections, with interesting shrubs and trees forming the background material.

The rock garden, behind the mall to the south, simulates a natural limestone outcropping. Here grow the alpine or rock plants, together with certain trees and shrubs which thrive in locations such as afforded by the rock ledges.

Special Collections

To the west of the walled garden are the perennial gardens. All of the newer varieties of perennials are to be found there, as well as many of the old-fashioned ones. Some annuals are used in order to maintain a succession of bloom throughout the season.

Immediately to the west is the new herb garden, containing 208 species of herbaceous plant material, plus 34 species of trees and shrubs of herbal value.

Among features that have helped to make the herb garden more educational is the system of labeling. Each plant variety is labeled legibly, giving not only the common and the botanical names, but frequently also the foreign names, often more familiar to older residents. Some of the principal uses of the herbs will be found on their labels.

The rose garden, which terminates the west mall, contains some 5,000 plants of over 350 varieties. The massive stone arbor to the south and the posts and chains to the north afford space for the display of the climbing and rambling varieties. The teas, hybrid teas and polyantha types occupy the center beds, while the outside borders contain the old-fashioned varieties.

North and west of the administration building is the peony garden, which contains 172 of the best varieties of herbaceous peonies.

To the south and west of the formal gardens are the lagoons, around which are planted some 125 varieties of flowering crab apple trees. This collection is carried into the Root river parkway and is composed of some 700 individual specimens.

Across the road to the north of the administration building is the

[Continued on page 86]



Herb Garden at the Boerner Botanical Gardens, Hales Corners, Wis.

Noteworthy Trees in Wisconsin Arboretum

By John E. Voight

As a public attraction, we can assume that a botanical garden is of first rank culturally in any community, and surely Milwaukee's Boerner Botanical Gardens are no exception. The attendance annually averages close to a million people and on peak days will average as many as 25,000.

The Boerner Botanical Gardens represent a favorable all-around display of herbaceous and woody collections. Let us review quickly the functions of a botanical garden:

1. It represents a show place or a living catalog for displays of trees, shrubs, ground covers, roses, vines, herbs, perennials and annuals.

2. A collection of carefully labeled and recorded plantings acts as a check means for those interested in varieties of plant material as well as their cultural needs.

3. It represents an excellent and dependable testing ground for both ornamental and unique plants that may or may not be hardy within this area.

4. It is a public horticultural educational center where information about plants grown outdoors is available at all times to the layman, student, nurseryman, botanist and others.

5. It serves as a training center for gardeners, arborists, etc.

Past president of the American Association of Botanical Gardens and Arboreta, director and past president of the Milwaukee Rose Society, judge for All-America Rose Selections and All-America Mum Selections, John E. Voight has been an employee of the Milwaukee county park commission for the past 27 years and superintendent of the Boerner Botanical Gardens since 1941. Educated at the University of Montana and the University of Wisconsin, he has been active in many horticultural societies and as a frequent lecturer on various garden subjects before many groups, as well as on radio and television.

This brief sketch indicates how such an institution and others help in the field of horticulture.

Supplying horticultural information to the public is one of the most important phases of its operation. This includes information on plant sources, varieties, types of plants, uses and cultural practices.

In this day and age, gardeners are confronted more and more with limited space and inadequate budgets; so I firmly believe we must have those ideas in mind when thinking about the use and the variety of plant materials.

I have been asked to discuss some of the plant materials that are perhaps a little unusual in the trade, but not necessarily new. Accordingly, I shall attempt to go over briefly

some of the trees, shrubs and ground covers that we have had the privilege of watching develop within our own area.

Trees

Acer campestre, hedge or English cork maple—Slow-growing, round-headed, shrublike tree, 25 to 30 feet at maturity; useful as a clipped hedge or screen because of the dense growth, with the branches extending down to the soil. The foliage is yellow in autumn, lacking the brilliant color of the native species. Corky bark and small, handsome, thick-appearing leaves. Prefers dry situations.

Gymnocladus dioica, Kentucky coffeetree—A rugged, slow-growing tree, with large, picturesque branches and stubby twigs, making it especially interesting in the winter landscape. The rigid bark makes it easy to identify. Thrives best in rich woods and bottom lands. Not considered an especially good shade tree and is slightly messy because it drops its pods and large leaves occasionally, but, if given room to spread its heavy branches, it makes a beautiful specimen.

Tilia cordata, small-leaved European linden—A slow-growing tree of compact pyramidal form, very dense head and dark green foliage. It makes an excellent shade and street tree. It is very hardy and adapts to a variety of soil conditions and exposures.

Magnolia stellata rosea, pink star magnolia—Shrub or small tree of dense growth, best used as a specimen. Long, narrow, dark green leaves of heavy substance. Flower buds are pink, and the fragrant flowers fade to white at maturity. The hardiest and in some respects the most ornamental of the Asiatic magnolias. Its growing habit is more uniform than that of the saucer magnolia.

Cercis canadensis, eastern redbud—Specimens of this large shrublike tree have been growing at the Boerner Botanical Gardens since 1942, having attained maximum heights of from 12 to 15 feet and have proved very hardy. The rosy-purple flowers produced before the leaves in April offer interest early in the season.

Cercis canadensis alba, white eastern redbud—Eleven-year-old specimens are only about eight feet tall at the present time. This white-flowered variety has proved almost as hardy as the type.

Gleditsia triacanthos inermis Skyline, Skyline locust—A shapely pyramidal form; crown requires little

[Continued on page 131]



Thorndale Ivy Growing on the Whitnall Park Administration Building

Choice Deciduous Shrubs Add Color to Evergreens

By Lewis F. Lipp

Horticulturist, Holden Arboretum, Mentor, O.

Each year the status of American gardens becomes further removed from the garden of yesterday. Much of the design has been lost in detail. Still, today's gardens effectively carry much charm. From the economic as well as the functional standpoint tremendous strides have been made. Yet there are much truth and cause for reflection in the fact that the careful grouping of evergreens evident in present-day gardens may need to be interplanted with deciduous shrubs. A varied planting, used with discretion, would bring richness and coherence to the landscape, enabling interest to be maintained over a longer period. The range of deciduous shrubs that could be grown is wide. Many need minimum attention, provided their needs are understood.

Tripetaleia paniculata, from Japan, is justly prized for its abundance of upright panicles of cup-shaped, white, tinged with pink, flowers during August. Why this 4 to 6-foot shrub is rare in cultivation is a puzzle, for there seems to be no difficulty about its culture. Perhaps it will never become a universal favorite because of its slow growth; however, this factor could be an advantage. *Tripetaleia paniculata* thrives best when grown in light, well-drained, lime-free soil and enjoys partial shade.

Low-Growing Spiraea

Among the many shrubby spiraeas, considerable interest is expressed in the neat bush of *Spiraea bullata*, a particular reason being that the deep green, crinkly leaves are retained late into November. Here is the shrub that could easily be used in place of *Teucrium chamaedrys*. It is especially effective for front-row planting with a background of evergreens. The full height does not exceed 15 inches and, in addition, it does not require pruning in order to maintain its interesting global shape. The decorative flat clusters of scarlet-rose flowers cover this shrub during July and well into August. Like most of the other spiraea species, it will grow well in full sun or shade and will thrive in a variety of soils.

Viburnum plicatum roseum is a

joy to see during the first week in July. The enjoyment is not from the flat clusters of white flowers in June, but later from the faded deep pink flowers. Knowledge is limited as to what causes overpowering magnificence of flowers one year and not the next. Underlined as important influences are soil and climate changes.

Few genera of shrubs are without a pendulous form. *V. prunifolium* Holden has striking pendulous branches and, of equal importance, has the attributes of the species, *V. prunifolium*. *V. prunifolium* Holden is hardy, relatively tall-growing, with long sweeping branches and flat clusters of white flowers during May. The large blue-black berries and brilliantly colored autumn foliage are not to be overlooked.

Dogwoods for Winter Color

In good company with rhododendrons, taxus, junipers and piersis would be a shrub of Siberian dogwood, *Cornus alba sibirica*, with its coral-red winter twigs. Equally striking is the yellow osier dogwood, *Cornus stolonifera flaviramea*, having brilliant yellow twigs. These eye-catching shrubs, in order effectively to display their brilliant twigs, should have two or three of the older shoots cut to the ground yearly, for the color is less prevalent in the older wood. Another pleasure these shrubs have in common is that in early autumn both will bear clusters of fleshy white fruits. These shrubs will grow in any good garden soil, as well as in a moist situation, and are of easy culture.

Another shrub that merits consideration is the pink pepperbush, *Clethra alnifolia* Pinkspire, which seldom grows more than six to eight feet tall. The better known white form grows along the eastern coast, giving off its distinctive, spicy scent during August and September. While the white is more commonly planted, the pink variety is more desirable. Pinkspire is said to be a deeper pink than the variety rosea. Plants prefer a moist, acid soil, but will thrive under ordinary conditions. Allow the plants to grow naturally, since shearing reduces bloom. Softwood and

half-ripened stem cuttings root easily.

With property space at a premium, *Stranvaesia davidiana undulata* is an excellent low-growing ornamental. Rarely exceeding three feet, it is distinguishable by its leathery leaves and clusters of scarlet berries during winter months. It is destined to become a valuable shrub because of its semievergreen foliage and the ease with which it can be propagated from softwood cuttings. Growers are indebted to China for this hardy shrub.

A unique 20-foot tree for use as a specimen in the foreground of a conifer planting would be *Pyrus salicifolia*, the willow-leaved pear. It has a graceful, weeping habit and is strikingly effective in spring, when the young growth and flowers appear as a blanket of white. The underside of the leaf is tomentose and most attractive in a slight breeze.

What Makes a Plant Rare?

Some of the shrubs described here may be a little difficult to find. From time to time there are discussions on what makes a tree or shrub rare in the trade. The list is large and varied, and it seems worthwhile to list briefly a few of the main reasons. High on this list would be lack of hardiness and adaptability to the climate. A surprising number of plants are difficult to transplant, while others are notably slow in developing. Others are not sufficiently decorative. As one becomes acquainted with the "personalities" of each species, one learns that many prove difficult to propagate vegetatively in sufficient numbers. Still others are weak growers and highly susceptible to disease or insects; hence the lack of interest on the part of nurserymen.

One has to wait for many other interesting candidates for 10 years or more before the flowers appear to be enjoyed, so that there is no apparent demand for these. Thorny shrubs present another problem, and even choice nursery lists have dropped such items because labor prefers not to dig many of them.

But probably the most significant reason why many plants are on the rare list is due to the buying public. It must be educated first to demand the many beautiful and exotic specimens that exist. The actively dedicated nurseryman can see and enjoy the qualities which each deciduous shrub possesses, but can only wait and wonder which novelty of today will be freely produced over the next 10 years, in spite of the recognition given to the increasing importance of evergreen plantings.

gs root
remium,
ata is an
amental.
it is dis-
y leaves
s during
d to be-
se of its
he ease
pagated
vers are
hardy
use as a
a coni-
salici-
It has
and is
, when
appear
derside
d most

re?
ed here
. From
ions on
rare in
varied,
briefly
igh on
rdness
ate. A
e diffi-
ers are
Others
ve. As
h the
s, one
ult to
ficient
weak
ble to
ack of
men.
er in-
ars or
to be
parent
hrubs
even
opped
rs not

ficant
n the
public.
mand
speci-
dedi-
enjoy
duous
wait
today
next
ition
ce of

Feature

SALES WINNERS

from ARMSTRONG

ARMSTRONG HALL OF FAME



El Capitan Red roses sell best—and this 1960 Armstrong introduction is the vivid, fiery red that one sees flashing through fiestas in Old Spain! Buds and blooms are beautifully shaped, long-lasting, color-fast.

This handsome, easy-to-grow Grandiflora gives perfect, long-stemmed flowers for cutting. Cash in on the sales ready-made by a stepped-up program of advertising and publicity.

Plant Pat. No. 1796

Carefully grown
and critically
graded...

**ADVERTISED-
KNOWN-
WANTED
ROSES**

Write for our Wholesale List

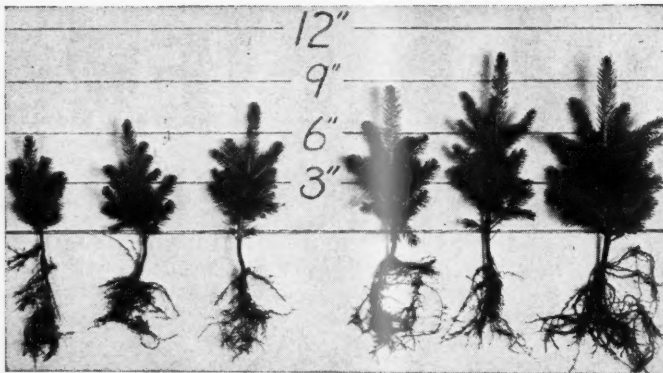
ARMSTRONG

NURSERIES

Ontario California

SEEDLINGS AND LINERS

SPRING, 1960

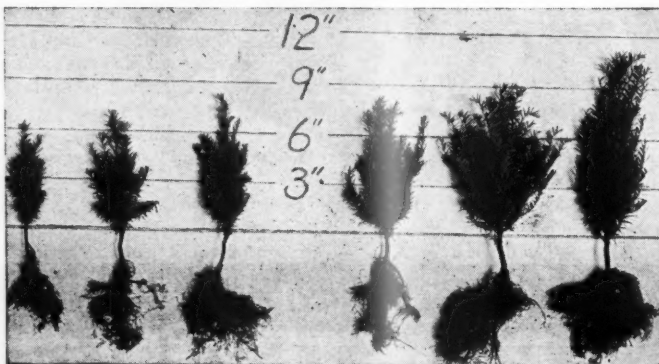


COLORADO BLUE SPRUCE, 6 to 10 ins., X

	Per 100	Per 1000	Per 1000 10,000 or more
Taxus cuspidata capitata (Upright Yew), seed grown			
8 to 12 ins., XX	\$65.00		
6 to 10 ins., X	42.50	\$275.00	\$250.00
4 to 6 ins., X	26.00	190.00	175.00
Colorado Blue Spruce			
(2-2), 6 to 10 ins.	18.00	150.00	135.00
(3-1), 6 to 10 ins.	14.00	75.00	
(3-0), 6 to 12 ins.	10.00	45.00	42.50
(2-0), 3 to 6 ins.	7.50	28.00	24.00
White Spruce			
(3-1), 6 to 10 ins.	12.00	70.00	
(3-0), 4 to 8 ins.	8.00	45.00	42.50
(2-0), 3 to 8 ins.	7.50	26.00	22.00
Norway Spruce			
(3-1), 6 to 14 ins.	12.00	65.00	
(3-0), 6 to 12 ins.	8.00	40.00	37.50
Black Hills Spruce			
(3-0), 4 to 8 ins.	8.00	40.00	37.50
Douglas Fir			
(2-2), 12 to 15 ins.	28.00	220.00	
(2-2), 6 to 12 ins.	22.00	180.00	
(2-0), 4 to 8 ins.	7.50	28.00	26.00
White Pine			
(2-2), 5 to 10 ins.	16.00	130.00	
Ponderosa Pine			
(2-2), 6 to 12 ins.	10.00	60.00	
Mugho Pine, Tyrolean dwarf			
(2-2), 3 to 4 ins.	22.00	160.00	150.00
Austrian Pine			
(2-2), 8 to 14 ins.	12.00	85.00	
(2-1), 3 to 8 ins.	10.00	37.50	32.50
(3-0), 5 to 10 ins.	10.00	28.00	24.00
(2-0), 2 to 4 ins.	6.00	18.00	16.00
Norway Pine			
(2-1), 3 to 6 ins.	9.00	45.00	
Riga Scotch Pine (Poland)			
(3-0), 12 to 16 ins.	9.00	34.00	30.00
(3-0), 8 to 12 ins.	7.50	26.00	22.00
(2-1), 3 to 8 ins.	9.00	36.00	32.00
Scotch Pine, Auvergne			
French Blue			
(2-0), 3 to 6 ins.	7.50	22.00	18.00

On transplants only: 5000 order in one item takes 10,000 rate.
*Apply for price on 50,000 or more of one grade.

Please send for illustrated list.



TAXUS CUSPIDATA CAPITATA, seed-grown, 6 to 10 ins., X

MATTHEWS NURSERY Harbor Springs, Mich.
Telephones: 123, 124 or 732 — Night: 899 or 1062

COMING EVENTS

MEETING CALENDAR

April 22 and 23—Holly Society of America, 28th meeting, Sylvania hotel, Philadelphia, Pa.

May 4 to 6—Short course for Virginia landscape men, Virginia Polytechnic Institute, Blacksburg, Va.

May 8 to 11—Western chapter, National Shade Tree Conference, meeting, Lafayette hotel, Long Beach, Calif.

May 12—Georgia nurserymen's field day, University of Georgia, Athens.

May 26 to 28—Florida Nurserymen and Growers Association, annual convention, Fort Harrison hotel, Clearwater, Fla.

May 29 to 31—Texas short course for nurserymen, Agricultural and Mechanical College of Texas, College Station, Tex.

May 30 and 31—Short course for Louisiana nurserymen, Southwestern Louisiana Institute, Lafayette, La.

June 1 and 2—California Association of Nurserymen and the department of ornamental horticulture, California State Polytechnic College, San Luis Obispo, annual nurserymen's refresher course, Cal Poly campus.

June 5 to 7—Georgia State Nurserymen's Association, convention, Ida Cason Callaway Gardens, Pine Mountain, Ga.

June 12 to 14—Alabama Nurserymen's Association, convention, Whitley hotel, Montgomery, Ala.

June 12 to 14—South Carolina Nurserymen's Association, annual meeting and short course, Clemson College, Clemson, S. C.

June 16 and 17—Short course for Florida nurserymen and growers, University of Florida, Gainesville, Fla.

June 19 to 21—Plains Nurserymen's Association and New Mexico Nurserymen's Association, joint convention, Scharbauer hotel, Midland, Tex.

June 21 and 22—Illinois State Nurserymen's Association, short course, University of Illinois, Urbana.

June 26 to 28—Maryland Nurserymen's Association, summer meeting, Williamsburg, Va.

June 26 to 28—Mississippi Florists' and Nurserymen's Association, annual meeting, Buena Vista hotel, Biloxi, Miss.

June 28 and 29—Short course for Missouri nurserymen, University of Missouri, Columbia, Mo.

July 8—National Shade Tree Conference, Ohio chapter, summer meeting, Cincinnati, O.

July 17 to 20—American Association of Nurserymen, annual convention, Netherland Hilton hotel, Cincinnati, O.

August 7 to 9—National Mail Order Nurserymen's Association, annual convention, Hotel La Salle, Chicago, Ill.

August 8 and 9—Michigan nursery and landscape conference, Kellogg Center, Michigan State University, East Lansing, Mich.

August 9 to 11—Ohio Nurserymen's Association, summer meeting, Commodore Perry hotel, Toledo, O.

August 14 to 17—Texas Association of

[Continued on page 24]

NTS

R

ciety of
a hotel,Virginia
hnic In-ter, Na-
meeting,
f.n's field
ens.serymen
conven-
arwater,urse for
fchani-
Station,urse for
westernociation
ment of
ia State
Obispo,
rse, CalNursery-
a Cason
Ga.rymen's
hotel,a Nurs-
meeting
Clem-or Flor-
universityrymen's
Nursery-
vention,Nursery-
Univer-Nursery-
g, Wil-sta's and
meet-s.
or Mis-ssouri,
Confer-
g, Cin-ciation
Neth-Order
conven-nursery
y Cen-
Eastymen's
modore

tion of



**A SPECIAL
P & D
ROSE SERVICE...REPEATED BY POPULAR DEMAND!**

OVERNIGHT DELIVERY

**of famous Oregon-grown
fresh dormant rose bushes**

This airlift service, initiated last year to serve winter-damaged areas, proved so popular we are repeating it. *No need to get caught short with overnight delivery available!*

NO EXTRA COST ON ORDERS OF 250 OR MORE

All orders shipped same day as received. Orders for 250 or more shipped air freight prepaid to your nearest air terminal, charging you usual pool car rate of 5 cents per bush and we pay the balance. Orders of 110 to 250 shipped air freight prepaid, charging you 10 cents per bush. Orders for less than 110 shipped express collect.

To facilitate air shipment, roses will be trimmed to 6", 8" or 10". Please specify preference.

For delivery tomorrow . . . phone or wire your order today!

PETERSON & DERING

ROSE GROWERS • SCAPPOOSE, OREGON

TELEPHONE LINDEN 3-6323



OTHER P & D EXTRAS AT NO EXTRA COST

1. Every bush is labeled—No variety mix-ups.
2. Every bush is top-tied—Easier to handle.
3. Every bush is trimmed to your specifications—Saves on freight, storage space and time.
4. Pliable fibrous roots and short shanks—Easier to pot and faster growing.
5. Free Ad Mats and Merchandising Aids—help you sell.
6. Color Folders and Banners—available at cost.
7. Free Color Pictures—for each variety ordered.

GOOD SELECTIONS STILL AVAILABLE

Most patent and non-patented varieties available in grades #1 and #1½. Choose from our latest listing. Minimum order, 110 roses. Please specify if substitute variety or grade may be shipped if desired grade or variety is out of supply.

Cartwright Nursery Co.

We are having a wonderful growing season, and we have available for the 1960 season the largest stock of top evergreens that we have ever offered. We would be very happy to have you visit us at the nursery and see our stock in the fields. We are, at this time, using 2000 acres of good west Tennessee land to produce for you the very best greens, and we think it would be worth your time to visit us if you are interested in the best stock available at reasonable prices.

JUNIPERS, UPRIGHT VARIETIES

All many times sheared, specimen-quality evergreens.

	Each	Each
	Per 10	Per 100
Juniper, virginiana glauca		
3 to 4 ft.	\$3.75	\$3.50
Juniper, virginiana burki		
2 to 3 ft.	2.75	2.50
Dundee Juniper		
2 to 3 ft.	2.75	2.50
4 to 5 ft.	4.75	4.50
Juniper, chinensis densa glauca		
excellent, compact, upright, blue-green color.		
4 to 5 ft.	3.75	3.50
Fastigiata Juniper		
(Improved Irish), very heavy.		
24 to 30 ins.	1.20	1.00
30 to 36 ins.	1.50	1.25
3 to 4 ft.	1.75	1.50
4 to 5 ft.	2.25	2.00
5 to 6 ft.	2.75	2.50
Greek Juniper		
(Juniper, excelsa stricta), well sheared		
15 to 18 ins.	1.35	1.20
18 to 24 ins.	1.75	1.50
30 to 36 ins.	3.00	2.75
Hetzl glauca Juniper, pyramids, staked and sheared pyramids		
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.75
Juniper, chinensis keteleeri		
4 to 5 ft.	4.25	4.00
Juniper, chinensis mascula		
3 to 4 ft.	3.25	3.00
4 to 5 ft.	4.25	4.00

All spreading Junipers many times trimmed, well filled and of specimen quality.

	Each	Each
	Per 10	Per 100
Andorra Juniper		
12 to 15 ins.	\$1.25	\$1.10
15 to 18 ins.	1.60	1.40
18 to 24 ins.	1.90	1.75
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.75
Chinensis procumbens Juniper		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.70	1.50
Hetzl glauca Juniper		
12 to 15 ins.	1.20	1.00
15 to 18 ins.	1.45	1.30
18 to 24 ins.	2.00	1.75
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.75
Pfitzer Juniper		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.70	1.50
18 to 24 ins.	2.25	2.00
24 to 30 ins.	2.75	2.50
Pfitzer Juniper, Blue		
15 to 18 ins.	1.70	1.50
18 to 24 ins.	2.25	2.00
Pfitzer Compact Juniper, Nick's		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.70	1.50
30 to 36 ins.	3.25	3.00

JUNIPERS, SPREADING VARIETIES

Each Per 10

Pfitzer Compact Juniper, Kallay	
12 to 15 ins.	\$1.15
15 to 18 ins.	1.70
18 to 24 ins.	2.25
Pfitzer Nana Juniper (Armstrong's)	
12 to 15 ins.	1.15
15 to 18 ins.	1.70
18 to 24 ins.	2.25
Savin Juniper (Sabina)	
12 to 15 ins.	1.20
15 to 18 ins.	1.50
18 to 24 ins.	2.00
Sabina horizontalis Juniper	
15 to 18 ins.	1.70
18 to 24 ins.	2.25
Sabina vanehron Juniper	
15 to 18 ins.	1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.50
Repandens Juniper	
(Juniper, virginiana repandens)	
12 to 15 ins.	1.20
15 to 18 ins.	1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.50
Virginalis Juniper	
15 to 18 ins.	1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.50

FLOWERING TREES, B&B

	Each	Each
	Per 10	Per 100
Cornus florida (White Dogwood)		
2 to 3 ft.	\$1.20	\$1.00
Magnolia nigra		
2 to 3 ft.	2.00	1.75
Magnolia soulangeana, trimmed plants, heavily branched and budded		
2 to 3 ft.	2.00	1.75
3 to 4 ft.	2.75	2.50
COLD STORAGE —We have available cold-storage facilities for taking care of Magnolia other nursery stock. In addition to our list prices, we will make the following minimum charge for storing B&B trees. If stock is to be stored past May 1, additional charges will be		
18 to 24 ins.	20c	3 to 4 ft. 30c
2 to 3 ft.	25c	4 to 5 ft. 40c
		5 to 6 ft. 50c
		6 to 8 ft. 60c

Each Per 10

Magnolia stellata	
(Dwarf Star Magnolia)	
18 to 24 ins.	\$2.00
2 to 3 ft.	3.00
Magnolia alexandrina	
2 to 3 ft.	2.25

LINERS

	Per 100	Per 1000
Buxus harlandi		
T. bedded, heavy, 4 to 6 ins.	\$12.50	\$100.00
T. bedded, heavy, 6 to 8 ins.	15.00	125.00
Cherry Laurel		
2 1/2-in. pot, 6 to 8 ins.	12.50	100.00
Elaeagnus fruitlandi		
2 1/4-in. pot, 12 ins.	15.00	125.00
Elaeagnus pungens		
2 1/4-in. pot	15.00	125.00
English Laurel		
2 1/4-in. pot, 4 to 6 ins.	17.50	150.00
Euonymus japonicus albo-marginatus		
T. bedded, 6 ins., light	15.00	125.00
Euonymus japonicus argenteo-variegatus		
T. bedded, 6 ins., good	15.00	125.00
Euonymus radicans, upright		
T. bedded, 6 to 10 ins., heavy.	15.00	125.00
Ilex cornuta burfordi		
2 1/2-in. pot, 5 ins.	17.50	150.00
Ilex cornuta femina		
2 1/2-in. pot, 4 to 6 ins.	17.50	150.00
Ilex cornuta Hume		
2 1/2-in. pot, 4 to 6 ins.	17.50	150.00
Ilex cornuta rotunda		
2 1/2-in. pot	22.50	200.00
Ilex crenata Billoi		
T. bedded, 4 to 6 ins.	12.50	100.00
Ilex crenata bellieri		
2 1/2-in. pot	17.50	150.00
Ilex crenata hetzi		
2 1/2-in. pot	15.00	125.00
Ilex crenata repandens		
T. bedded, 4 to 6 ins.	15.00	125.00
Ilex crenata rotundifolia		
T. bedded, 6 to 8 ins.	15.00	125.00
Ilex crenata seedlings		
T. bedded, 6 to 10 ins., br.	15.00	125.00
Ilex opaca Arden		
2 1/2-in. pot, 4 to 6 ins.	22.50	200.00

	Per 100	Per 1000
Ilex opaca Greenenburg		
2 1/2-in. pot, 6 to 8 ins.	\$22.50	\$200.00
Ilex opaca East Palatka		
2 1/2-in. pot, 4 to 6 ins.	17.50	150.00
Ilex opaca howardi		
2 1/2-in. pot, 4 to 6 ins.	22.50	200.00
Ilex opaca Hume No. 2		
2 1/2-in. pot, 6 to 10 ins.	17.50	150.00
Ilex opaca Reynolds		
2 1/2-in. pot, 6 to 8 ins.	20.00	175.00
Jasmine, floridum		
T. bedded, 8 to 12 ins., heavy	15.00	125.00
Ligustrum Suwannee River		
T. bedded, 8 ins., heavy	30.00	300.00
Nandina domestica		
2-in. pot, 4 to 8 ins.	12.50	100.00
Viburnum burkwoodi		
2 1/2-in. pot	17.50	150.00
Viburnum chenaulti		
2 1/2-in. pot	17.50	150.00
Viburnum rhytidophyllum (Leather-Leaved)		
2 1/2-in. pot	17.50	150.00
Zabel Laurel		
2 1/2-in. pot, 6 to 8 ins., br.	17.50	150.00
Thuja occidentalis compacta erecta		
2 1/2-in. pot	17.50	150.00
Thuja occidentalis globosa		
2 1/2-in. pot	17.50	150.00
Thuja occidentalis pyramidalis		
2 1/2-in. pot	17.50	150.00
Thuja occidentalis wareana (Siberian)		
2 1/2-in. pot	17.50	150.00
Chamaecyparis Cyano Viridis		
3-in. pot	17.50	150.00
Juniper, chinensis procumbens		
3-in. pot	22.50	200.00
Juniper, hetzi glauca		
Beer cans, 6 to 8 ins.	17.50	150.00

ONE-YEAR, FIELD-GROWN LINERS

well-rooted, heavy

	Per 100
Juniper, Andorra	
6 to 8 ins., good	\$15.00
Juniper, excelsa stricta	
8 to 10 ins., heavy, trimmed.	15.00
Juniper, hetzi glauca	
8 to 12 ins.	15.00
Juniper, Pfitzer, compacta (Kallay)	
8 to 10 ins.	17.50
Juniper, Pfitzer, compacta (Nick's)	
8 to 10 ins., good	17.50
Juniper, Pfitzer Blue	
8 to 12 ins.	17.50
Juniper, repandens	
cutback from 8 to 10 ins.	17.50
Juniper, sabina	
10 to 12 ins., heavy	15.00
Juniper, sabina horizontalis	
10 to 12 ins.	15.00
Juniper, chinensis albo-variegata	
8 to 10 ins.	17.50
Juniper, virginalis	
8 to 12 ins.	12.50
Juniper, sabina vanehron	
8 to 12 ins.	15.00
Juniper, fastigiata	
8 to 12 ins.	15.00
Juniper, Golden Canadian	
8 to 12 ins.	15.00

k of top-
 our stock
 ery best
 ailable

	Each	Per 10
Day		

... 15.00

... 17.50

.. 17.50

.. 17.50

15.00

12.50

15.00

. 15.00

1

CHOICE NORTHERN-GROWN NURSERY STOCK

SPRING, 1960—PICKUP OR DELIVERY

	Each	Each		Each	Each
	Per 10	Per 100		Per 10	Per 100
Acer palmatum atropurpureum (Dwarf Red Maple) From cuttings, B&B			Forsythia intermedia spectabilis		
12 to 15 ins.	\$3.25	...	B.R., 2 to 3 ft.	\$0.55	\$0.50
15 to 18 ins.	4.25	...	B.R., 3 to 4 ft. ....	.70	.60
18 to 24 ins.	6.00	...	Forsythia Lynwood Gold		
AZALEAS , hardy evergreen, B&B,			B.R., 2 to 3 ft. ....	.65	.60
ALADDIN, BLAAUW'S PINK,			B.R., 3 to 4 ft. ....	.80	.70
FEDORA, HINO-CRIMSON, HER-			Ilex crenata convexa		
BERT, KATHLEEN, MARY ANN,			(Small-Leaved Japanese Holly)		
OTHELLO, PALESTRINA, ZAMPA			B&B, 12 to 15 ins.	2.00	1.75
12 ins., 3-yr., bed ...	1.75	\$1.50	B&B, 15 to 18 ins.	2.75	2.50
12 to 15 ins.	2.50	2.25	B&B, 18 to 24 ins.	3.50	3.25
15 to 18 ins.	3.50	3.25	Ilex crenata microphylla		
			B&B, 12 to 15 ins.	1.80	1.70
			B&B, 15 to 18 ins.	2.50	2.25
			Ilex crenata rotundifolia, B&B		
			10 to 12 ins.	1.40	1.25
			12 to 15 ins.	1.80	1.60
			15 to 18 ins.	2.25	2.15
			18 to 24 ins.	2.75	2.50
			24 to 30 ins.	3.50	3.25

Total order of 250 or more azaleas,
assorted varieties.

12 to 15 ins., B&B, \$1.75
15 to 18 ins., B&B, \$2.25

AZALEAS, KNAPP HILL, Improved Mollis, B&B		
12 to 15 ins.	2.00	1.75
15 to 18 ins.	2.50	2.25
18 to 24 ins.	3.25	3.00
Berberis thunbergii atropurpurea (Red Barberry), B.R., heavy		
18 to 24 ins. ....	.35	.25
24 to 30 ins. ....	.40	.30
Buxus koreana (Korean Boxwood)		
B.R., 8 to 10 ins. ....	.70	.60
Buxus sempervirens (English Boxwood)		
B.R., 6 to 9 ins. ....	.60	.50
Cornus florida (White Dogwood)		
B.R., 2 to 3 ft.	1.25	1.00
B.R., 3 to 4 ft.	1.75	1.50
B&B, 4 to 5 ft.	3.25	3.00
B&B, 5 to 6 ft.	4.25	4.00
Cornus florida rubra (Red Dogwood)		
B&B, 2 to 3 ft.	2.75	...
Cornus florida rubra Prosser, Improved Red, B&B		
2 to 3 ft.	4.00	...
3 to 4 ft.	5.00	...
Euonymus alatus (Winged Euonymus)		
B.R., 18 to 24 ins.	1.00	.75
B.R., 2 to 3 ft.	1.50	1.25
Euonymus fortunei coloratus, Creeping cover, bushy		
B.R., 10 to 12 ins. ....	.35	.25
Euonymus vegetus (Winter Creeper)		
B.R., 10 to 12 ins. ....	.65	.60
B&B, 12 to 15 ins. ....	.80	.75

L.T.L. B&B or canned material must be picked up at nursery or we can make arrangements for combination shipments to many areas.
Terms: All stock offered subject to prior sale. Usual terms apply. New customers furnish credit reference or C.O.D.

ROSES

ROSES

ROSES

are selling fast. While we are sold out of some varieties, we still have many good varieties left in No. 1 grade. Ask for our surplus list or call for immediate booking.

GERARD K. KLYN, INC.

Mentor, Ohio

Nurserymen, annual convention, Adolphus and Baker hotels, Dallas, Tex.

August 14 to 19—National Shade Tree Conference, annual meeting, Statler hotel, Boston, Mass.

August 15 to 17—Northern Nut Growers' Association, annual meeting, Knoxville, Tenn.

August 16—Nebraska Association of Nurserymen, annual summer meeting, Lincoln, Neb.

August 17—New England Nurserymen's Association, summer meeting, Boulevard Nurseries, Newport, R. I.

August 18 and 19—Iowa Nurserymen's Association, summer meeting, Iowa State College, Ames, Ia.

August 21 to 23—Southern Nurserymen's Association, annual convention, Atlanta Biltmore hotel, Atlanta, Ga.

August 21 to 26—American Association of Nurserymen, management conference, Sagamore conference center of Syracuse University, near Raquette Lake, N. Y., and Lake Arrowhead conference center of the University of California, Lake Arrowhead, Calif.

August 25—Pennsylvania Nurserymen's Association, summer meeting, University Park, Pa.

September 15 to 17—Louisiana Association of Nurserymen, Inc., annual convention, Blackham Coliseum, Southern Louisiana Institute, Lafayette, La.

September 20 to 22—California Association of Nurserymen, annual convention, Yosemite, Calif.

ALABAMA PROGRAM

"Efficiency—Keynote of Survival in the 60's," is the theme of the convention of the Alabama Nurserymen's Association, to be held June 12 to 14 at the Hotel Whitley, Montgomery, Ala. Details of the program, which has been released by Henry P. Orr, secretary-treasurer of the association, are as follows:

JUNE 12

2 p. m.—Registration.
2:30 p. m.—Tour to Jasmine Hills, near Wetumpka. Departure from lobby, Hotel Whitley.

6 p. m.—Old-fashioned barbecue, at the Poundstone Farm near Wetumpka, courtesy of Central Alabama Nurserymen's Association.

JUNE 13

8 a. m.—Registration.
9 a. m.—Opening session, State room.
9:05 a. m.—Invocation, by Charles Douglass, rector, St. John's Episcopal church, Montgomery.

9:10 a. m.—Address of welcome, by Earl James, mayor of Montgomery.

9:20 a. m.—Response, by Fletcher Ponder, Tallapoosa County Nurseries, Dadeville.

9:30 a. m.—President's address, by Tom Sawada, Overlook Nurseries, Inc., Mobile.

9:50 a. m.—Appointment of committees and announcements.

10 a. m.—"Curbing Lost Time-Motion in the 60's," by Prof. A. F. DeWerth, head, department of floriculture and landscape architecture, Agricultural and Mechanical College of Texas, College Station, Tex.

10:45 a. m.—"Production Efficiency,"

[Continued on page 28]

Healthy, well-rooted Liners...

Yours **Jiffy-Pots®**
with **MADE OF PEAT**

Nursery stock reaches salable size faster.

Propagators report that 3-year-old stock which was started in Jiffy-Pots is fully equal to 4-year-old stock started in clay pots. A big part of this saving comes at field-planting time since liners need not be root-bound to transplant successfully, but can be set out after only a few weeks in Jiffy-Pots.

Growing area will handle more pots per sq. ft.

Your growing area will handle 15 per cent more Jiffy-Potted liners than clay-potted liners. Also, pot-handling chores are all but eliminated, which leads to greatly increased efficiency.

Field planting can be continued over longer periods.

You can field plant when weather conditions are most ideal. Whether it's too wet or too dry, Jiffy-Potted liners keep right on growing—never become pot-bound.

Shock-free transplanting allows continuous growth.

Since the root system is completely enclosed in peat, it takes its entire greenhouse environment right with it to the field. Therefore, no shock from root disturbance.



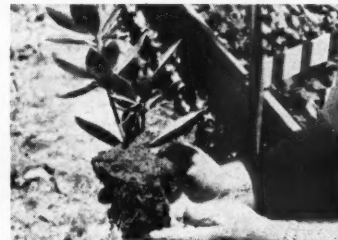
TAXUS



EUONYMUS—*Euonymus coloratus*, potted July, 1957, photo taken November 13, 1958. These were carried in cold-frames pot-tight, with sand covering on top of the pots.



OLEANDER—Note the excellent root development of these young plants after six months in 2 1/4-in. Jiffy-Pots. They will develop into nice salable plants much sooner than the clay-potted liners.



RHODODENDRON—Richard Schwoebel Nursery, Ardmore, Pa., states, "We can make a salable Rhododendron from a cutting one year faster by using Jiffy-Pots as compared to conventional methods."

YOU CAN COUNT ON JIFFY-POTS FOR TOTAL ROOT PENETRATION

No. 115. 1 1/2-in. Round. 1 3/4 ins. deep. Per 1000
3000 to 18,000 (3000, \$17.70) \$5.90
21,000 to 72,000 5.40
75,000 up 4.90
Sold in cases of 3000. 18 lbs. per case. Minimum order 3000.

No. 122. 2 1/4-in. Round. 2 1/4 ins. deep. Per 1000
1000 to 18,000 (3000, \$21.75) \$7.25
21,000 to 72,000 6.75
75,000 up 6.25
Sold in cases of 3000. 35 lbs. per case. Minimum order 3000.

No. 222. 2 1/4-in. Square. 2 1/4 ins. deep. Per 1000
2500 to 17,500 (2500, \$20.00) \$8.00
20,000 to 72,500 7.35
75,000 up 6.70
Sold in cases of 2500. 40 lbs. per case. Minimum order 2500.

No. 130. 3-in. Round. 3 ins. deep. Per 1000
1500 to 9000 (1500, \$19.88) \$13.25
10,500 to 49,500 12.25
51,000 up 11.00
Sold in cases of 1500. 35 lbs. per case. Minimum order 1500.

No. 230. 3-in. Square. 3 ins. deep. Per 1000
1000 to 9000 \$14.50
10,000 to 49,000 13.25
50,000 up 12.00
Sold in cases of 1000. 40 lbs. per case. Minimum order 1000.

No. 330. 3-in. Shorty. 2 1/2 ins. deep. Per 1000
1500 to 9000 (1500, \$19.50) \$13.00
10,500 to 49,500 12.00
51,000 up 10.75
Sold in cases of 1500. 33 lbs. per case. Minimum order 1500.

No. 335. 3 1/2-in. Shorty. 3 ins. deep. Per 1000
1000 to 6000 \$18.25
7000 to 29,000 17.00
30,000 and up 15.25
Sold in cases of 1000. 35 lbs. per case. Minimum order 1000.

No. 140. 4-in. Round. 4 ins. deep. Per 1000
500 to 4500 (500, \$13.75) \$27.50
5000 to 19,500 25.50
20,000 up 23.50
Sold in cases of 500. 35 lbs. per case. Minimum order 500.

No. 240. 4-in. Square. 4 1/2 ins. deep. Per 1000
500 to 4500 (500, \$14.50) \$29.00
5000 to 19,500 26.75
20,000 up 24.50
Sold in cases of 500. 35 lbs. per case. Minimum order 500.

Prices PREPAID in lots of 150 lbs. or more anywhere in the continental United States, excluding Alaska. Otherwise F.O.B. West Chicago; Bayonne, N. J.; Allentown, Pa.; Toledo, Ohio; Houston, Tex.; Los Angeles, Calif.; San Francisco, Calif.; Portland, Ore.; Mobile, Ala.

WEST CHICAGO, ILL.
TELEPHONE 299

GEO. J. BALL

GEO. J. BALL, INC.

From Seed... to Seedlings

***20
MILLION
TREES
A YEAR!**

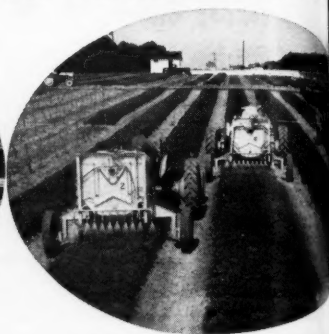
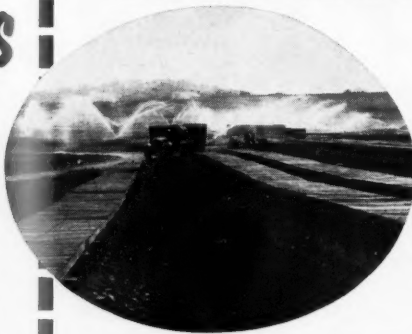
***NOW OVER 35 MILLION!**

**CERTIFIED
SEED**

**MUSSER
SEEDLINGS**

**COMMON
SEEDLINGS**

No Effort is Spared OUR TREMENDOUS VOLUME ENABLE



IRRIGATION IS PROVIDED BY MODERN SYSTEM MODERN EQUIPMENT INCREASES EFF

Buyers of trees are making an investment for the future. Trees or shrubs which, after planting, fail to properly mature may cause later years of regret. Future satisfaction or profit depends primarily on the quality of stock.

Careful Selection of seed, good heredity and scientific methods are important. Starting with such stock the chances of failure are minimized and later years of satisfaction are assured.

Good Heredity characteristics through careful selection of seed is basic Musser policy. Expert foresters gather seed from all parts of America and from Europe.

Through Scientific Culture in the nurseries, seedlings develop the strong compact mass of fine roots characteristic of Musser stock. Such young trees derive more nourishment from the soil and thrive where poorer stock may fail to survive.

New Techniques in fertilization, spraying and handling are studied and tested to assure healthy, disease-free seedlings. The most modern equipment and methods are employed.

It is only through an ever increasing list of satisfied customers throughout the years that Musser Forests production has grown to its present tremendous volume.

SEEDLINGS AND TRANSPLANTS AT LOW, QUANTITY PRICE

- 50 at 100 rate; 500 at 1000 rate
Per 100 Per 1000
- SPECIAL STRAIN SCOTCH PINE**
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed specimens. Also all other best strains Scotch Pine—French, Austrian Hill, German, Spanish strains available.
2-yr., S. (2-0), 2 to 4 ins. \$ 3.00 \$ 15.00
2-yr., S. (2-0), 4 to 8 ins. 6.00 30.00
3-yr., S. (3-0), 8 to 16 ins. 9.00 45.00
4-yr., T. (2-2), 8 to 14 ins. 20.00 100.00
 - WHITE PINE**
One of the best timber species. Excellent windbreak and hedge. Very good ornamental and Christmas tree.
2-yr., S. (2-0), 2 to 6 ins. 5.00 25.00
Suitable stock for field planting.
3-yr., S. (3-0), 4 to 8 ins. 7.00 35.00
3-yr., S. (3-0), 8 to 12 ins. 9.00 45.00
 - AUSTRIAN PINE**
Good timber species. A beautiful, dark green, long-needle ornamental and Christmas tree, grown from selected seed from the Austrian Alpine region.
2-yr., S. (2-0), 2 to 6 ins. 5.00 25.00
3-yr., S. (3-0), 8 to 14 ins. 8.00 40.00
4-yr., S. (4-0), 8 to 16 ins. 10.00 50.00
 - MUGHO PINE—Fumillo Strain**
Very best of true dwarf. Compact, low-growing ornamental pine.
2-yr., S. (2-0), 2 to 4 ins. 5.00 25.00
3-yr., S. (3-0), 4 to 8 ins. 10.00 50.00
 - AMERICAN RED PINE**
Excellent timber and Christmas tree.
2-yr., S. (2-0), 2 to 6 ins. 5.00 25.00
3-yr., S. (3-0), 8 to 14 ins. 9.00 45.00
4-yr., T. (3-1), 6 to 10 ins. 13.00 65.00

- Per 100 Per 1000
- MUSSER EXCLUSIVE NORWAY SPRUCE**
Exceptionally fast-growing, straight-stemmed stock especially desirable for Christmas trees, ornamentals and timber. Grown from seed collected by our own men from selected trees.
2-yr., S. (2-0), 5 to 10 ins. \$ 7.00 \$ 35.00
3-yr., S. (3-0), 10 to 15 ins. 10.00 50.00
3-yr., T. (2-1), 5 to 10 ins. 15.00 75.00
4-yr., T. (3-1), 8 to 12 ins. 20.00 100.00
 - NORWAY SPRUCE**
2-yr., S. (2-0), 2 to 4 ins. 3.00 15.00
2-yr., S. (2-0), 3 to 6 ins. 5.00 25.00
2-yr., S. (3-0), 5 to 10 ins. 7.00 35.00
 - SERBIAN SPRUCE (Picea omorika)**
Unusually valuable ornamental. Tall, asymmetrical habit of growth, with very narrow, drooping branch spread. Needles $\frac{1}{2}$ to $\frac{3}{4}$ in. long. Glossy green.
3-yr., S. (3-0), 8 to 12 ins. 12.00 60.00
 - COLORADO BLUE SPRUCE**
Excellent stock—finest in the country. One of the finest for ornamental and Christmas tree use. Sturdy and compact in form; straight stems. From slightly blue-green to marvelous blue. Seed collected at very high cost from trees showing only the best characteristics.
2-yr., S. (2-0), 2 to 4 ins. 4.00 20.00
3-yr., S. (3-0), 6 to 12 ins. 11.00 55.00
4-yr., S. (4-0), 8 to 12 ins. 16.00 80.00
Very superior stock.
4-yr., T. (3-1), 4 to 8 ins. 18.00 90.00
5-yr., T. (3-2), 8 to 14 ins. 35.00 175.00
Excellent heavy stems, lightly branched.
*6-yr., TT., 10 to 12 ins. \$1.00 each
*7-yr., TT., 12 to 16 ins. \$1.50 each
*8-yr., TT., 16 to 20 ins. \$2.00 each
*Sold in lots of 5 or more. Individually packed.

- Per 100 Per 1000
- WHITE SPRUCE**
Similar to Norway spruce except for its lighter color and slower growth rate.
2-yr., S. (2-0), 2 to 4 ins. \$ 3.00 \$ 15.00
2-yr., S. (2-0), 4 to 8 ins. 5.00 25.00
3-yr., S. (3-0), 8 to 12 ins. 8.00 40.00
4-yr., T. (3-1), 6 to 12 ins. 15.00 75.00
5-yr., T. (3-2), 12 to 15 ins. 20.00 100.00
6-yr., T. (3-3), 12 to 20 ins. 30.00 150.00
 - ALBERTA WHITE SPRUCE**
4-yr., S. (4-0), 6 to 12 ins. 9.00 45.00
 - BLACK HILLS SPRUCE**
Fine ornamental. Most compact spruce. Excellent Christmas tree.
2-yr., S. (2-0), 2 to 4 ins. 4.00 20.00
3-yr., S. (3-0), 5 to 10 ins. 7.00 35.00
4-yr., S. (4-0), 8 to 12 ins. 10.00 50.00
4-yr., T. (3-1), 4 to 8 ins. 15.00 75.00
 - CANADIAN HEMLOCK**
Lacy, graceful growing habit. Can be sheared to any size. Hedges, specimen ornamentals. Full shade or full sunlight.
2-yr., S. (2-0), 2 to 6 ins. 9.00 45.00
3-yr., T. (2-1), 8 to 12 ins. 20.00 100.00
 - BALSAM FIR**
Fine for Christmas trees and ornamentals.
2-yr., S. (2-0), 2 to 4 ins. 5.00 25.00
3-yr., S. (3-0), 4 to 7 ins. 8.00 40.00
 - DOUGLAS FIR**
Hardy bluish, Rocky Mountain type. Superior ornamental and Christmas tree.
2-yr., S. (2-0), 4 to 8 ins. 5.00 25.00
3-yr., S. (3-0), 5 to 10 ins. 9.00 45.00
3-yr., S. (3-0), 8 to 12 ins. 11.00 55.00
4-yr., T. (3-1), 8 to 12 ins. 20.00 100.00

YMAN

are
NABLE

CREASES

rees or sh
later year
on the dethods an
re mininof seed
all panop the str
Such you
re poore studied
modern eqmers thro
its pre

Per 100

ot for its
rate.\$ 15.00
25.00
40.00
75.00
100.00
150.00

45.00

t spruce

20.00
35.00
50.00
75.00Can be
specimen
sunlight
45.00
100.00

rnamen-

25.00
40.00ype. Su-
tree.25.00
45.00
55.00
....

Produce the Best Quality Stock

TO SAVE YOU MONEY — AND MUSSER TREES GROW BEST!



MODERN MACHINES PREPARE SEED BEDS..... LIQUID FERTILIZER SUPPLIES EXTRA NUTRIENTS..... WE TRANSPLANT FOR STRONGER ROOTS

CONCOLOR FIR
Excellent ornamental. Silver trunk and soft silver foliage. Fine for Christmas trees. Holds needles best of any short-needle tree. Needs good drainage.
1-yr., S. (2-0), 4 to 8 ins. \$ 7.00 \$ 35.00
1-yr., S. (3-0), 6 to 12 ins. 9.00 45.00

JAPANESE LARCH
2-yr., S. (2-0), 10 to 18 ins. 5.00 25.00

AMERICAN ARBORVITAE
Popular for hedges and ornamentals.
2-yr., S. (2-0), 3 to 6 ins. 5.00 25.00
3-yr., S. (3-0), 8 to 12 ins. 8.00 40.00

GLOBE ARBORVITAE—Transplants
Plants started from rooted cuttings assure true strains.
Woodward—Dark Green
1-yr., T., 4 to 6 ins. 30.00 250.00
Hovey's Green
1-yr., T., 4 to 6 ins. 25.00 200.00

PYRAMIDAL ARBORVITAE—Transplants
All plants started from rooted cuttings to assure true strains.
Compacta—Green
1-yr., T., 5 to 7 ins. 35.00 300.00

JUNIPER—Blue Pfitzer—chinensis hetzi
Improved Juniper with irregular spreading habit, fast growth, bluish color. Used extensively in landscape work. Excellent for foundation plantings.
1-yr., T., 5 to 7 ins. 25.00 200.00
2-yr., T., 6 to 10 ins. 65.00
Field-grown
2-yr., T., 10 to 15 ins. 90.00
Heavy, field-grown
"TTT", spread 15 to 18 ins., \$2.50 each
"Field-grown—ornamental size. Extra-nice. Sold in lots of 5 or more. Individually packed with ball of peat moss.

JUNIPER—Irish
1-yr., T., 5 to 6 ins. 30.00 250.00

JUNIPER—Andorra
1-yr., T., 5 to 6 ins. 30.00 250.00

Many other Evergreens, Hardwoods, Ornamental and Shade Trees—Rhododendrons and Azaleas.

SEND FOR COMPLETE CATALOG AND WHOLESALE PLANTING LIST — also famous CHRISTMAS TREE GROWERS' GUIDE

"20 MILLION TREES A YEAR" became a recognized symbol of Musser Forests years ago when that volume was reached—annual production has since reached more than 35 MILLION TREES.

JAPANESE YEW—Grown from seed
Taxus cuspidata capitata—Upright
pyramidal.
Extra-nice plants, excellent, fibrous roots.
3-yr., S. (3-0), 4 to 8 ins. \$25.00 \$150.00
3-yr., S. (3-0), 8 to 12 ins. 30.00 200.00

JAPANESE YEW—Transplanted, rooted cuttings.
True strains from rooted cuttings.

Taxus cuspidata—Spreading
1-yr., T., 5 to 6 ins. 25.00 175.00
2-yr., T., 6 to 8 ins. 35.00 250.00
3-yr., T., heavy liner, 8 to 12 ins. 45.00 350.00

Taxus hicksi—Upright
1-yr., T., 5 to 7 ins. 25.00 175.00
2-yr., T., 8 to 10 ins. 40.00 300.00

Taxus browni—Upright
1-yr., T., 4 to 6 ins. 25.00 175.00
2-yr., T., 6 to 8 ins. 40.00 300.00

Taxus intermedia—Spreading
1-yr., T., 4 to 6 ins. 25.00 175.00
2-yr., T., 6 to 8 ins. 35.00
Taxus cuspidata capitata—Upright
Tip cuttings.
1-yr., T., 4 to 6 ins. 25.00

JAPANESE HOLLY
Ilex crenata hetzi
Very shiny, convex-shaped leaf. Larger leaf than convexa.
*4-yr., TT, 12 to 15 ins., \$2.00 each
Ilex rotundifolia
*4-yr., TT, 12 to 15-in. spread, \$2.00 each
*Sold in lots of 5 or more. Individually packed in ball of peat moss.

BARBERRY—Red
Unusually good red color. Excellent hedge plants. Red leaves in summer, red berries in fall-winter.
2-yr., S., 6 to 12 ins. 10.00 50.00

PIN OAK
*8 to 12 ins., S. \$11.00 \$55.00
*18 to 24 ins., S. 15.00 75.00
3 to 4 ft., T., \$1.50 each
*Sold in lots of 10 at 100 rate.

SUGAR MAPLE
Hard Maple—Fast-growing
6 to 12 ins., S. 10.00 50.00
12 to 18 ins., S. 16.00 80.00

CHINESE CHESTNUT—Blight-resistant (Ching Chow Strain)
12 to 18 ins., S. 30.00 150.00
24 to 36 ins., S. 50.00

WHITE-FLOWERING DOGWOOD
2-yr., S., 12 to 18 ins. 12.00 60.00
32 to 48 ins., T., \$1.50 each

RHODODENDRON HYBRID—Cuttings, Grafts
Our own hardy, Pennsylvania-grown plants. Red, pink, mauve and rose-lilac.
1-yr., T., C., 6 to 10 ins. 100.00 750.00
Will sell at ratio of 20 per cent red to other colors.
*2-yr., red, 9 to 12 ins., \$3.00 each
*2-yr., colors other than red, 9 to 12 ins., \$2.50 each
*Sold in lots of 5 or more. Individually packed with ball of peat moss.

HARDY EVERGREEN AZALEAS
These plants are budded and will bloom this spring. Hardy, very bushy.
Azalea Boudoir,
watermelon-pink
*4-yr., TT, 12 to 15 ins. \$3.00 each
Azalea Fedora,
red
*4-yr., TT, 12 to 15 ins. \$3.00 each
Azalea Herbert,
double orchid
*4-yr., TT, 12 to 15 ins. \$3.00 each
*Sold in lots of 5 or more. Individually packed in ball of peat moss. Lots of 25 or more, \$2.50 each.

All stock grown from Selected seed and cuttings.

Carefully Graded and Packed

No charge for packing and boxing.

Our cold storage permits late shipments.

ORDER NOW!

Write or Phone
Opkins 5-5686

MUSSER FORESTS

BOX 16-D
INDIANA, PA.



PLASTIC LAWN EDGING

... by Union

Controls Grass the Easy Way

Union Plastic Lawn Edging is a tough polyethylene material for edging along walks, around trees and shrubs and flower beds. It's easy to use and it provides positive control over the spread of grass into areas where it is unwanted.

Safe! It won't harm mower blades if it is accidentally mowed over. Even when stepped on, it won't break or crack.

Completely resists rot...corrosion...rust...alkalies or acids in soil...salt air and spray...stain. Easily cut to desired length with garden shears or scissors.

40 ft. long,
4 in. wide.
Green only.

UNION PRODUCTS, INC.

LEOMINSTER, MASS.

by Hubert Nicholson, Commercial Nursery Co., Decherd, Tenn.

11:30 a. m.—"Efficiency Through Research," by Tok Furuta, associate professor of horticulture, Auburn University, Auburn, Ala.

12:15 p. m.—Lunch.

JUNE 13

2 p. m.—"Garden Center 'Musts' for the 60's," by D. Murray Franklin, publisher and editor, Garden Supply Merchandiser magazine, Towson, Md.

2:45 p. m.—"Landscape Efficiency," by Robert Green, Jefferson Davis Green Nurseries, Memphis, Tenn.

3:30 p. m.—Tour of nurseries, garden centers, greenhouses, gardens and historical points of interest in the area.

6:30 p. m.—Social hour.

7:30 p. m.—Buffet supper, entertainment and dancing.

JUNE 14

7:30 a. m.—A. A. N. breakfast.

9 a. m.—General meeting and business session.

10 a. m.—"Alabama's Highway Program in 1960," by R. D. Jordan, chief engineer, Alabama highway department.

10:20 a. m.—"Importance of Community Clubs in Roadside Development," by Fletcher Farrington, county agent, Tallapoosa county.

10:40 a. m.—"Your State Department of Agriculture," by state commissioner of agriculture, R. C. Bamberg.

11 a. m.—"Product Promotion for Nurserymen?" by W. W. Paterson, Rosemont Gardens, Inc., Montgomery.

11:20 a. m.—Summary panel, with all speakers participating.

GEORGIA FIELD DAY

According to F. A. Pokorny, department of horticulture, University of Georgia, Athens, the following program will be presented at the nurserymen's field day to be held May 12 at the university:

THURSDAY, MAY 12

9:30 a. m.—Welcome.

9:45 a. m.—"Report on Progress in Horticulture at the University."

10 a. m.—"Tax Laws—How They Affect the Nurseryman."

10:30 a. m.—"Financing Your Nursery."

11 a. m.—"Report on Nursery Industry Survey in Georgia."

11:30 a. m.—"Training and Pruning Plants."

12 noon—Lunch.

1 p. m.—Tour of teaching facilities.

1:30 p. m.—"Trend in Plants in the Atlanta Area."

2 p. m.—"Operating the Sales Area of a Modern Garden Center."

2:30 p. m.—"Soil Testing for Nursery Crops."

3 p. m.—Panel discussion.

3:30 p. m.—Tour of nursery facilities.

NORTH CAROLINA TOUR

The summer tour of the North Carolina Association of Nurserymen will be made June 19 to 23, according to Thomas F. Cannon, department of horticulture, North Carolina State College, Raleigh, N. C. Tentative plans include visits to the atomic energy installation at Oak Ridge, Tenn.; the Winchester,



TWO WAY MONEY-MAKER FOR NURSERYMEN

Use Sequestrene Iron Chelates

Assure your valuable nursery stock of proper iron nutrition. Correct and guard against iron deficiency (chlorosis) with Sequestrene Iron Chelates.

- Put new green life in yellowing leaves.
- Get healthier, more salable plants with more buds and flowers.
- Promote lush dark green growth.

*Use,
Sell,*

SEQUESTRENE® IRON CHELATES

Sell Sequestrene Iron Chelates

with every order for ornamentals or nursery stock. Help your customers preserve the health and appearance of their purchase through continued proper iron nutrition. Your customers will thank you—and you add an increasingly popular item to your home garden line.

SEQUESTRENE IRON CHELATES are advertised to home gardeners in Better Homes and Gardens Garden Ideas, House Beautiful's Practical Gardener, Flower Grower, Popular Gardening, Horticulture, Flower & Garden, American Rose Magazine, and others.



ORIGINATORS OF DDT INSECTICIDES

GEIGY AGRICULTURAL CHEMICALS • Division of Geigy Chemical Corporation • Saw Mill River Road, Ardsley, N.Y.

GRESHAM'S NURSERY LINING-OUT STOCK

OUR PRESENT STOCK IS UNUSUALLY FINE IN QUALITY. MAY WE SUGGEST YOU ORDER EARLY WHILE SELECTION IS COMPLETE? WE WOULD BE PLEASED TO QUOTE ON YOUR WANT LIST. CONSULT OUR CATALOG FOR MANY OTHER ITEMS.

	Per 100	Per 1000		Per 100	Per 1000
ABELIA grandiflora	\$15.00	\$125.00	LIGUSTRUM		
AUCUBA			<i>Lucidum</i>	\$17.50	\$150.00
<i>Japonica</i>	17.50	150.00	<i>Lucidum nobilis</i>	20.00	175.00
<i>Japonica variegata</i> ..	17.50	150.00	<i>Lucidum recurvifolium</i> ..	17.50	150.00
BERBERIS			MAGNOLIA		
<i>Candidula</i>	22.50	200.00	<i>Grandiflora</i> ,		
<i>Julianae nana</i>	22.50	200.00	8 to 10 ins.	17.50	150.00
BUXUS sempervirens ,			NANDINA DOMESTICA ,		
heavy, R. C.	7.50	50.00	<i>B. R.</i>	15.00	125.00
CHAMAECYPARIS (RETINOSPORA)			OSMANTHUS		
<i>Cyano Viridis</i>	22.50	200.00	<i>Aquifolium</i> ..	20.00	185.00
COTONEASTER			PHOTINIA		
<i>Francheti</i> ..	12.50	100.00	<i>Serrulata</i>	20.00	185.00
<i>Praecox</i>	20.00	185.00	PYRACANTHA		
<i>Repens</i> , evergreen,			<i>Crenato-serrata</i>	20.00	185.00
hardy	15.00	125.00	<i>Lalandi royali</i> , More bushy		
CUNNINGHAMIA LANCEOLATA			than <i>Lalandi</i>	22.50	200.00
<i>Glaucia (blue)</i>	20.00	185.00	<i>Rogersiana</i>	22.50	200.00
DEUTZIA			TEUCRIUM		
<i>Gracilis</i>	12.50	100.00	<i>CHAMAEDRYD</i>	15.00	125.00
ELAEAGNUS			THUJA (Arborvitae)		
<i>Pungens compacta</i> ..	20.00	185.00	<i>American</i>		
ILEX			(<i>nigra compacta</i>) ..	20.00	185.00
<i>Cornuta rotunda</i>	25.00	225.00	<i>Bakeri</i>	20.00	185.00
<i>Crenata convexa</i>	18.50	175.00	<i>Elegantissima</i>	20.00	185.00
<i>Crenata microphylla</i> ..	20.00	185.00	<i>Globosa (Globe)</i>	20.00	185.00
<i>Crenata microphylla</i>			<i>Pyramidalis</i>	20.00	185.00
<i>erecta</i>	20.00	185.00			
<i>Crenata repandens</i> ..	20.00	185.00			
<i>Crenata rotundifolia</i> ..	20.00	185.00			
<i>Opaca</i> , cuttings from					
choice berried					
plants	30.00	275.00			
<i>Opaca Arden</i>	30.00	275.00			
<i>Opaca Croonenburg</i> ..	30.00	275.00			
<i>Opaca Ruby Red</i> ..	30.00	275.00			
JUNIPERUS					
<i>Andorra</i>	22.50	200.00			
<i>Conferta litoralis</i>					
(<i>Shore Juniper</i>) ..	22.50	200.00			
<i>Hibernica</i>					
(<i>Irish Juniper</i>) ..	17.50	150.00			
<i>Pfitzeriana</i>	20.00	185.00			
<i>Pfitzeriana glauca</i> ..	22.50	200.00			
<i>Sargentii</i>	20.00	185.00			
<i>Stricta</i>	20.00	185.00			
<i>Waukegan</i>	20.00	185.00			

2 1/4-in. pots

All plants are well established.

250 of one variety at 1000 rate.



GRESHAM'S NURSERY

R. F. D. 9, RICHMOND 25, VA.

Decherd and McMinnville, Tenn., nursery areas, and the nurseries at Athens, Huntsville and Chase, Ala.

HOLLY SOCIETY PROGRAM

The following program has been released for the 28th meeting of the Holly Society of America, scheduled for April 22 and 23 at Philadelphia, Pa., with the Sylvania hotel as headquarters:

APRIL 22

10 a. m.—Trustees' meeting, Green room.

Walking tour of historic Philadelphia (optional).

1:30 p. m.—Program session, Carleton room, with Richard Wyman presiding.

"What Should We Be Looking for in Holly Clones?", by H. Gleason Mattoon.

"Where Should Holly Be Used in the Home Landscape?", by Raymond P. Korbob.

"Germinating Seeds of the American Holly," by Richard E. Barrett.

3:30 p. m.—Holly question box, with Dan Fenton as moderator.

4:30 p. m.—Business meeting, with William E. Snyder presiding.

6:30 p. m.—Banquet, Wedgewood room. "Flowers and Fires of Hawaii," an illustrated talk by Richard Wyman.

APRIL 23

9 a. m.—Buses leave Sylvania hotel for Morris Arboretum.

11:15 a. m.—Buses leave Morris Arboretum for Tyler Arboretum.

12:30 p. m.—Lunch at Tyler Arboretum.

2 p. m.—Buses leave Tyler Arboretum for Swarthmore College.

3:30 p. m.—Buses leave Swarthmore College for Sylvania hotel.

4:30 p. m.—Meeting adjourned.

MARYLAND'S JUNE DATES

Selected as the dates for the summer meeting of the Maryland Nurserymen's Association are June 26 to 28. This meeting will be held at Williamsburg, Va. The association has, for the first time, named a permanent committee to handle the group's conventions, this committee now being headed by Mr. and Mrs. James McWilliams, Maxalea Nurseries, Baltimore, Md., who are in charge of the program for the summer meeting.

SOUTH CAROLINA PLANS

Plans are nearing completion for the annual meeting and short course of the South Carolina Nurserymen's Association scheduled for June 12 to 14 at Clemson College, Clemson, S. C. Reservations have been made at the Clemson House for the affair, according to Mrs. J. W. Moon, Jr., Moon Nursery, Moonville, secretary.

The short course will be held the morning and afternoon of Monday, June 13, and Tuesday morning, June 14.

[Continued on page 34]

MENNE-POTS

WHY
PAY
MORE... when



MENNE-POTS COST LESS

Size 0 Top . . . 4"
Bottom 3 1/4" High 4"
Weight per 100
Reg. 10 lbs. Heavy 25
Regular Weight
100 \$2.75 1000 \$25.00
Heavy Weight
100 \$3.75 1000 \$35.00

Size 0 1/2 Top . . . 5"
Bottom 4" High 5"
Weight per 100
Reg. 13 lbs. Heavy 30
Regular Weight
100 \$3.50 1000 \$32.50
Heavy Weight
100 \$4.50 1000 \$42.50

Size 1 Top . . . 6"
Bottom 5" High 6"
Weight per 100
Reg. 16 lbs. Heavy 35
Regular Weight
100 \$4.00 1000 \$37.50
Heavy Weight
100 \$5.25 1000 \$50.00

Size 2 Top . . . 7"
Bottom 5 1/2" High 6 1/2"
Weight per 100
Reg. 24 lbs. Heavy 55
Regular Weight
100 \$4.50 1000 \$42.50
Heavy Weight
100 \$5.75 1000 \$55.00

Size 3 Top . . . 8 1/4"
Bottom 6 1/2" High 9"
Weight per 100
Reg. 30 lbs. Heavy 70
Regular Weight
100 \$5.00 1000 \$47.50
Heavy Weight
100 \$6.25 1000 \$60.00

Size 4 Top . . . 10"
Bottom 8" High 10"
Weight per 100-120 lbs.
100 \$11.00
500 \$52.50 1000 \$100
*Heavy Only --
For trees and shrubs

Size 5 Top . . . 12"
Bottom 10" High 12"
LG POT
Weight per 100-250 lbs.
20 30c ea. 100 \$27.50
500 \$125 1000 \$225
*For extra-heavy
trees, large shrubs

Size Pan Top . . . 8 1/4"
Bottom 7 1/4" High 5"
PAN Weight per 100
Reg. 30 lbs. Heavy 70
Regular Weight
100 \$5.00 1000 \$47.50
Heavy Weight
100 \$6.25 1000 \$60.00

SUPERIOR STRENGTH

Rugged construction gives you a better pot! Withstands rough handling . . . will not break apart.

DRAINAGE

Unique side drainage feature makes water-logging impossible . . . no worry while pot stands in yard!

LIGHT WEIGHT

Easy to handle . . . economical. Light weight cuts shipping costs. Menne-Pots save you money!

COMPLETELY ASSEMBLED

Stapled Bottom . . . a Menne-Pot can be used immediately! No waste "set-up" time. No heating.

Menne-Pots Help You Sell!

Customers prefer nursery stock in Menne-Pots because of handling ease and they can be carried in a car without dirt or muss. Menne-Pots are perfect for merchandising roses, shrubs, trees, annuals, perennials, etc. . . . in full flower . . . and all season!

With the Regular Menne-Pot there is no transplanting; plant pot and all! Roots penetrate walls and bottom. Plants can be re-dug with ease months later because of the compact root system.

*MENNE-POTS shipped F.O.B., North Tonawanda, N. Y.

1 3/4" Square	2 1/4" Round
2,500 to 17,500 \$6.90 M	2,000 to 18,000 \$7.75 M
20,000 to 72,500 6.40 M	20,000 to 74,000 7.25 M
75,000 and up 5.90 M	75,000 and up 6.75 M
2,500 per case — 30 lb.	2,000 per case — 32 lb.
2 1/4" Square	3" Round
2,000 to 18,000 \$10.50 M	1,000 to 9,000 \$13.75 M
20,000 to 74,000 9.75 M	10,000 to 49,000 12.75 M
75,000 and up 9.00 M	50,000 and up 11.50 M
2,000 per case — 36 lb.	1,000 per case — 28 lb.
3" Square	4" Round
1,000 to 9,000 \$17.25 M	500 to 2,000 \$28.75 M
10,000 to 49,000 16.00 M	2,500 to 9,500 26.25 M
50,000 and up 14.75 M	10,000 and up 24.75 M
1,000 per case — 30 lb.	500 per case — 30 lb.
Freight Allowed	4" Azalea
On 150 Lbs. Or More	500 to 2,000 \$28.75 M
Also available in the above	2,500 to 9,500 26.25 M
sizes — THINLINE weight —	10,000 and up 24.75 M
10 — 30 per cent less in price.	500 per case — 28 lb.

(Prices vary slightly in areas serviced by distributors)

MENNE-POTS INC.

NORTH TONAWANDA, N. Y. LUDlow 4444

MENNE PEAT POTS

Low Cost - Light Weight - Pre-Sterilized
Compact - Plant Pot-and-All - Plants Grow Faster

Once you use a MENNE PEAT POT you'll never buy anything else. These top-quality domestic made peat pots save you labor of transplanting to field or bench. No labor and time wasted in storing pots. MENNE PEAT POTS also eliminate transplant shock and promote faster, stronger growth. You're sure to get top prices and more satisfied customers. For bigger profits next season, order your MENNE PEAT POTS today!

SEND
FOR YOUR
SAMPLE SET
OF
MENNE-POTS
TODAY!

Distributorships open in Southern States

MENNE-POTS INC.

AN 4-15

NORTH TONAWANDA, N. Y.

Please send me complete sample set of Menne-Pots and Menne Peat Pots. I enclose \$1.50

Name

Address

City Zone State

T. G. OWEN & SON, INC.

Columbus, Miss.

FINISHED STOCK

	Each	10 or more		Each	10 or more		Each	10 or more
Biota aurea nana Berckmans	Each	10 or more	Juniperus excelsa stricta	Each	10 or more	Hex glabra (Inkberry)	Each	10 or more
15 to 18 ins., B&B	\$1.40	\$1.20	12 to 15 ins., B&B	\$1.20	\$1.00	12 to 15 ins., B&B	\$1.00	\$1.00
18 to 24 ins., B&B	1.70	1.50	15 to 18 ins., B&B	1.35	1.20	15 to 18 ins., B&B	1.15	1.00
Biota bakeri			24 to 30 ins., B&B	2.25	2.00	18 to 24 ins., B&B	1.40	1.25
24 to 30 ins., B&B	1.30	1.10	30 to 36 ins., B&B	2.75	2.50	Hex opaca East Palatka		
30 to 36 ins., B&B	1.60	1.40	Juniperus glauca hetzi			18 to 24 ins., B&B	1.20	1.10
3 to 4 ft., B&B	2.00	1.75	12 to 15 ins., B&B	1.20	1.00	30 to 36 ins., B&B	1.70	1.50
4 to 5 ft., B&B	2.50	2.25	15 to 18 ins., B&B	1.50	1.30	3 to 4 ft., B&B	2.75	2.50
Biota Blue Cone			18 to 24 ins., B&B	2.00	1.75	4 to 5 ft., B&B	3.25	3.00
18 to 24 ins., B&B	1.20	1.00	24 to 30 ins., B&B	2.50	2.25	Hex opaca Howard		
24 to 30 ins., B&B	1.45	1.25	Juniperus hibernica fastigiata			2 to 3 ft., B&B	2.25	2.00
30 to 36 ins., B&B	1.70	1.50	24 to 30 ins., B&B	1.10	1.00	3 to 4 ft., B&B	3.25	3.00
Biota Bonita			30 to 36 ins., B&B	1.40	1.25	Hex opaca Howard, seedlings		
15 to 18 ins., B&B	1.30	1.10	Juniperus virginiana burki			3 to 4 ft., B&B	2.75	2.50
18 to 24 ins., B&B	1.60	1.40	24 to 30 ins., B&B	2.75	2.50	4 to 5 ft., B&B	3.50	3.25
30 to 36 ins., B&B	2.25	2.00	Juniperus virginiana burki compacta			5 to 6 ft., B&B	4.00	3.75
Biota Bonita, upright (Brewer's Hybrid)			(A counterpart of the well-known J. virginiana burki, except that this one is a beautiful spreading type, maintaining the well-known glaucous color of the upright form.)			Hex vomitoria		
18 to 24 ins., B&B	1.30	1.10	15 to 18 ins., B&B	1.75	1.50	2 to 3 ft., B&B	2.00	1.75
24 to 30 ins., B&B	1.45	1.25	18 to 24 ins., B&B	2.25	2.00	3 to 4 ft., B&B	2.50	2.25
30 to 36 ins., B&B	2.00	1.75	Juniperus virginiana canaerli			Hex crenata hetzi		
3 to 4 ft., B&B	2.25	2.00	24 to 30 ins., B&B	2.75	2.50	10 to 12 ins., B&B	.90	.80
4 to 5 ft., B&B	2.50	2.25	30 to 36 ins., B&B	3.25	3.00	Jasminum floridum		
Biota excelsa			Juniperus virginiana keteleeri			18 to 24 ins., B&B	.95	.85
18 to 24 ins., B&B	1.20	1.00	24 to 30 ins., B&B	2.25	2.00	2 to 3 ft., B&B	1.30	1.10
24 to 30 ins., B&B	1.30	1.10	30 to 36 ins., B&B	2.50	2.25	(Deduct 50% if wanted B.R.)		
3 to 4 ft., B&B	2.00	1.75	3 to 4 ft., B&B	3.00	2.75	Laurocerasus caroliniana		
4 to 5 ft., B&B	2.25	2.00	Thuja occidentalis Hetz's Winter Green			(Cherry Laurel)		
Biota fruitlandi			15 to 18 ins., B&B	1.40	1.25	3 to 4 ft., B&B	1.75	1.50
15 to 18 ins., B&B	1.40	1.20	Abelia grandiflora			4 to 5 ft., B&B	2.75	2.50
18 to 24 ins., B&B	1.70	1.50	18 to 24 ins., B&B	1.00	.90	Ligustrum lucidum compactum		
24 to 30 ins., B&B	1.95	1.75	Buxus sempervirens cronii			18 to 24 ins., B&B	1.00	.90
Biota sibirica			10 to 12 ins., B&B	1.15	1.00	24 to 30 ins., B&B	1.25	1.10
24 to 30 ins., B&B	1.30	1.10	12 to 15 ins., B&B	1.40	1.25	30 to 36 ins., B&B	1.50	1.35
30 to 36 ins., B&B	1.60	1.40	15 to 18 ins., B&B	1.50	1.35	Magnolia grandiflora		
3 to 4 ft., B&B	2.00	1.75	Camellia sasanqua Malden's Blush			2 to 3 ft., B&B	1.75	1.50
4 to 5 ft., B&B	2.50	2.25	15 to 18 ins., B&B	1.15	1.00	3 to 4 ft., B&B	2.75	2.50
Cedrus deodara			18 to 24 ins., B&B	1.40	1.25	4 to 5 ft., B&B	3.75	3.50
18 to 24 ins., B&B	1.55	1.35	Elaeagnus fruitlandi			Nandina domestica		
24 to 30 ins., B&B	1.80	1.60	12 to 15 ins., B&B	1.10	.90	2 to 3 ft., B&B	.90	.80
Andorra Juniper			2 to 3 ft., B&B	1.20	1.00	18 to 24 ins., B&B	1.15	1.00
12 to 15 ins., B&B	1.30	1.10	3 to 4 ft., B&B	1.50	1.25	24 to 30 ins., B&B	1.40	1.25
15 to 18 ins., B&B	1.60	1.40	Euonymus patens, small leaf			Photinia serrulata		
18 to 24 ins., B&B	1.95	1.75	15 to 18 ins., B&B	.95	.75	15 to 18 ins., B&B	.90	.80
24 to 30 ins., B&B	2.20	2.00	18 to 24 ins., B&B	1.20	1.00	18 to 24 ins., B&B	1.10	.90
Juniperus chinensis pfitzeriana			Euonymus radicans erectus			2 to 3 ft., B&B	1.20	1.00
12 to 15 ins., B&B	1.30	1.10	15 to 18 ins., B&B	1.05	.90	Viburnum tinus		
15 to 18 ins., B&B	1.70	1.50	Hex cornuta			24 to 30 ins., B&B	1.40	1.25
18 to 24 ins., B&B	2.00	1.75	18 to 24 ins., B&B	1.45	1.25	30 to 36 ins., B&B	2.00	1.75
24 to 30 ins., B&B	2.50	2.25	24 to 30 ins., B&B	1.70	1.50	Acer palmatum atropurpureum		
30 to 36 ins., B&B	2.75	2.50	Hex cornuta, seedlings			seedlings (Red-leaved Japanese Maple)		
Juniperus chinensis pfitzeriana compacta			18 to 24 ins., B&B	1.40	1.25	18 to 24 ins., B&B	2.00	1.75
12 to 15 ins., B&B	1.30	1.10	Hex crenata convexa bullata			Euonymus alatus compactus		
15 to 18 ins., B&B	1.70	1.50	10 to 12 ins., B&B	.85	.70	18 to 24 ins., B&B	1.40	1.25
18 to 24 ins., B&B	2.00	1.75	12 to 15 ins., B&B	1.00	.80	2 to 3 ft., B&B	1.75	1.50
24 to 30 ins., B&B	2.50	2.25	Hex crenata hellei			(Deduct 50% if wanted B.R.)		
30 to 36 ins., B&B	2.75	2.50	6 to 8 ins.	.80	.70	Hypericum patulum (St. John's-wort or sundrops)		
Juniperus Chinensis mascula			8 to 10 ins.	1.00	.90	2 to 3 ft., B&B	1.40	1.25
3 to 4 ft., B&B	2.75	2.50	Hex crenata hetzi			Magnolia soulangiana		
4 to 5 ft., B&B	3.25	3.00	8 to 10 ins.	.50	.40	2 to 3 ft., B&B	2.00	1.75
Juniperus communis eracovia			12 to 15 ins.	.55	.45	Spiraea reevesiana flore-plena		
(Polish Juniper)			15 to 18 ins.	.75	.60	(Double Reeves Spiraea)		
24 to 30 ins., B&B	1.20	1.00	Hex crenata repandens			3 to 4 ft., B&B	1.25	1.00
30 to 36 ins., B&B	1.50	1.25	8 to 10 ins.	.55	.45			
			10 to 12 ins.	.65	.55			
			12 to 15 ins.	.75	.65			
			15 to 18 ins.	1.25	1.00			
			Hex crenata rotundifolia					
			8 to 10 ins.	.50	.40			

CANNED NURSERY STOCK

Prices according to GRADE AND QUALITY. Listed in one-gallon and two-gallon green metal Plantainers and Nurseries.

	1-gal.	2-gal.		1-gal.	2-gal.
Elaeagnus fruitlandi			Ligustrum lucidum compactum		
18 to 24 ins.	\$1.10		12 to 15 ins.	\$0.50	
Euonymus radicans erectus			15 to 18 ins.	.55	
12 to 18 ins.	\$.50		18 to 24 ins.	.65	
Gardenia fortunei			24 to 30 ins.	.75	
15 to 18 ins.	.50		Magnolia grandiflora		
18 to 24 ins.	.60		12 to 18 ins.	.60	
Hex cornuta burfordi			2 to 3 ft.	.90	
12 to 15 ins.	.55		Podocarpus sinensis		
15 to 18 ins.	1.10		12 to 15 ins.	.55	
Hex cornuta, male			15 to 18 ins.	.60	
12 to 15 ins.	.55		Pyracantha coccinea Inlandi		
Hex cornuta, seedlings			15 to 18 ins.	.55	
12 to 15 ins.	.50		18 to 24 ins.	.65	
15 to 18 ins.	.60		2 to 3 ft.	.80	
Hex crenata buxifolia			3 to 4 ft.	.80	
12 to 15 ins.	.70	1.10	Liquidambar styraciflua		
15 to 18 ins.	1.25		(Sweet Gum)		
			2 to 3 ft.	.60	
			3 to 4 ft.	.75	

LINING-OUT STOCK

		Each	Each			Each	Each			
		Per 100	Per 1000			Per 100	Per 1000			
potted liners shipped in paper pots or Orders for 25 to 249 of a variety in one size take the 100 rate. Orders for 250 or more of a variety in one size take the 1000 rate.										
	<i>Juniperus hibernica fastigiata</i>	2 1/4-in. pots	.....	\$0.17	...	<i>Hex crenata buxifolia</i>	2 1/4-in. pots	.....	\$0.15	\$0.14
		2 1/2-in. pots	.....	.18	\$0.17		2 1/2-in. pots	.....	.16	.15
	<i>Juniperus horizontalis douglasii</i>	2 1/4-in. pots	.....	.20	.18	<i>Hex crenata fosteri No. 1</i>	2 1/4-in. pots	.....	.18	.16
	<i>Juniperus japonica procumbens</i>	2 1/4-in. pots	.....	.20	.18	<i>Hex crenata hetzi</i>	2 1/4-in. pots	.....	.17	.16
	<i>Juniperus sabina tamariscifolia</i>	2 1/4-in. pots	.....	.22 1/2	.20		2 1/2-in. pots	.....	.18	.17
		2 1/2-in. pots	.....	.25	.22 1/2		6 to 8 ins., well-br.	.....	.14	.12
	<i>Juniperus virginiana burki</i>	2 1/4-in. pots	.....	.27	.25	<i>Hex crenata repandens</i>	2 1/4-in. pots	.....	.15	.14
	<i>compacta</i>	See description in B&B list.					2 1/2-in. pots	.....	.16	.15
	<i>Juniperus virginiana keteleeri</i>	2 1/4-in. pots	.....	.22	.20	<i>Hex opaca East Palatka</i>	2 1/4-in. pots	.....	.16	.15
	<i>Taxus cuspidata</i>	2 1/4-in. pots	.....	.19	.17		2 1/2-in. pots	.....	.18	.17
		2 1/2-in. pots	.....	.20	.18	<i>Hex opaca femina</i>	2 1/4-in. pots	.....	.19	.18
	<i>Taxus media andersoni</i>	2 1/4-in. pots	.....	.18	.17		2 1/2-in. pots	.....	.22	.20
	<i>Taxus media hicksi</i>	2 1/4-in. pots	.....	.19	.17	<i>Laurocerasus caroliniana</i>				
		2 1/2-in. pots	.....	.20	.18	(Cherry Laurel)				
	<i>Taxus media sieboldi</i>	2 1/4-in. pots	.....	.18	.17	8 to 12 ins., S.	.....		.10	.08
	<i>Abelia grandiflora</i>	2 1/4-in. pots	.....	.15	.14	2 1/4-in. pots	.....		.14	.12
		2 1/2-in. pots	.....	.17	.16	2 1/2-in. pots	.....		.16	.14
	<i>Berberis julianae</i>	2 1/4-in. pots	.....	.20	.18	<i>Ligustrum sinense pendula</i>				
		2 1/2-in. pots	.....	.22 1/2	.20	(Weeping Amur River				
	<i>Buxus sempervirens cronii</i>	2 1/4-in. pots	.....	.20	.18	South Privet)				
		2 1/2-in. pots	.....	.22	.20	2 1/4-in. pots	.....		.10	.08
	<i>Cleyera japonica</i>	2 1/4-in. pots	.....	.20	.18	<i>Ligustrum Texanum</i>				
		2 1/2-in. pots	.....	.22	.20	2 1/4-in. pots	.....		.17	.15
	<i>Cleyera ochnacea</i>	2 1/4-in. pots	.....	.16	.15	2 1/2-in. pots	.....		.19	.17
		2 1/2-in. pots	.....	.18	.16	<i>Pyracantha belli, red fruit</i>	2 1/4-in. pots	.....	.20	.18
	<i>Elaeagnus fruitlandi</i>	2 1/4-in. pots	.....	.16	.15	<i>Pyracantha Government Red</i>	2 1/4-in. pots	.....	.18	.16
		2 1/2-in. pots	.....	.18	.17		2 1/2-in. pots	.....	.17	.16
	<i>Euonymus japonicus aureo-</i>					<i>Acer palmatum atropurpureum,</i>				
	<i>variegatus</i>	2 1/4-in. pots	.....	.22	.20	seedlings				
		2 1/2-in. pots	.....	.24	.22	2 1/4-in. pots	.....		.21	.20
	<i>Gardenia fortunei</i>	2 1/4-in. pots	.....	.16	.15	2 1/2-in. pots	.....		.26	.25
		2 1/2-in. pots	.....	.18	.16	<i>Berberis thunbergii atropurpurea</i>	2 1/4-in. pots	.....	.11	.10
	<i>Hex aquifolium</i>	2 1/4-in. pots	.....	.20	.18		2 1/2-in. pots	.....	.13	.12
		2 1/2-in. pots	.....	.20	.18	<i>Cornus florida</i>	2 1/4-in. pots	.....	.12	.10
	<i>Hex cornuta, seedlings</i>	2 1/4-in. pots	.....	.17	.15		2 1/2-in. pots	.....	.14	.12
		2 1/2-in. pots	.....	.17	.15	<i>Lagerstroemia indica Wm. Toovey</i>				
	<i>Hex cornuta burfordi</i>	2 1/4-in. pots	.....	.14	.12	(Crape Myrtle)				
		2 1/2-in. pots	.....	.17	.15	2 1/4-in. pots	.....		.17	.16
	<i>Hex cornuta femina</i>	2 1/4-in. pots	.....	.20	.18	2 1/2-in. pots	.....		.20	.18
		2 1/2-in. pots	.....	.22	.20	<i>Liquidambar styraciflua</i>				
						(Sweet Gum Tree)				
						8 to 12 ins., S.	.....		.07	.06
	<i>Hedera helix (English Ivy)</i>	2 1/4-in. pots	.....	.16	.15					
		2 1/2-in. pots	.....	.18	.16					

SURPLUS — LINING-OUT STOCK EXCELLENT QUALITY

We offer you these at real BARGAIN PRICES.

		Each	Each			Each	Each
		Per 100	Per 1000			Per 100	Per 1000
<i>Juniperus japonica</i>	2 1/4-in. pots	\$0.12	\$0.10	<i>Ligustrum lucidum compactum</i>	2 1/4-in. pots	\$0.10	\$0.08
	2 1/2-in. pots	.14	.12		2 1/2-in. pots	.12	.10
<i>Enonymus radicans erectus</i>	2 1/4-in. pots	.10	.08	<i>Nandina domestica</i>	1 to 1 1/2 ins., S.	.03	.02
	2 1/2-in. pots	.10	.08		2 1/4-in. pots	.10	.08
<i>Hex convexa bullata</i>	2 1/4-in. pots	.12	.10		2 1/2-in. pots	.12	.10
	6 to 8 ins., beds, well-br.	.14	.12		3-in. pots	.14	.12
<i>Hex crenata rotundifolia</i>	2 1/4-in. pots	.10	.08	<i>Osmanthus fortunei</i>	2 1/4-in. pots	.17	.15
	2 1/2-in. pots	.12	.10		2 1/2-in. pots	.17	.15
<i>Hex opaca Howard, seedlings</i>	2 1/4-in. pots	.12	.10	<i>Photinia serrulata</i>	2 1/4-in. pots	.12	.10
	2 1/2-in. pots	.12	.10				
				<i>Pittosporum tobira</i>	1 to 1 1/2 ins., S.	\$0.04	\$0.03
					2 1/4-in. pots	.10	.08
					2 1/2-in. pots	.12	.10
				<i>Pyracantha coccinea lalandi</i>	Strong, R. C.	.08	.06
					2 1/4-in. pots	.12	.10
					2 1/2-in. pots	.14	.12
				<i>Viburnum tinus</i>	2 1/4-in. pots	.10	.08
					2 1/2-in. pots	.10	.08
				<i>Spiraea Anthony Waterer</i>	2 1/4-in. pots	.10	.08

T. G. OWEN & SON, INC.

Columbus, Miss.

For the Legitimate Nurseryman

Here's the best practical answer

To cut-rate chain-merchandising

A HEALTHY, THRIVING PLANT
GROWING IN A STURDY

Cloverset Pot

DEVELOPED 30 years ago to combat cut-rate competition during depression days, the CLOVERSET POT is still the nurseryman's best answer to chain store merchandising. Why worry about meeting price competition? You can make more money selling the quality-conscious market we can assure you still exists.

MAKE MORE MONEY—SELL QUALITY. A thriving plant, growing in its own Cloverset Pot, makes an attractive display, is convenient to handle and easy to sell because you can safely stake your own reputation on its satisfaction to the customer . . . something your price-cutting chain store competitors find it difficult to do. CLOVERSET pots make your quality story believable, your customers easy to convince they're getting the finest.

INCREASE CASH-AND-CARRY BUSINESS. Your customers will find mass displays of CLOVERSET potted plants so beautiful, so convenient to select from, the plants so easy to handle, they'll simply be unable to resist those extra purchases. Profitable cash-and-carry business should increase from the day you start using CLOVERSET pots.

PLAN NOW for Extra Profits This Spring!

Don't put it off! Decide to make more money this year. Just any old disposable pot won't do this merchandising job . . . there's more to it than that! **FOR COMPLETE INFORMATION FREE, send the coupon.**

SIZES FOR EVERY NEED: Roses, Perennials, Shrubs and Young Trees.

Size	Height	Top Diam.	Nearest Clay Pot	No. In Carton	WEIGHT Per 1000	F.O.B. Kansas City		Cloverset Pot Prices
						Per 100	Per 1000	
No. 0	5 1/4 ins.	5 ins.	6 ins.	200	210 lbs.	\$4.25	\$40.00	F.O.B. Kansas City.
No. 1	6 1/4 ins.	6 ins.	7 ins.	100	340 lbs.	5.25	50.00	
No. 2	8 1/4 ins.	7 ins.	8 ins.	100	535 lbs.	5.75	55.00	
No. 3	9 ins.	8 ins.	9 ins.	100	600 lbs.	6.25	60.00	
No. 4	13 ins.	12 ins.	....	25	Per 100	25 pots, \$7.70; 50 pots, \$14.60; 75, \$21.75; 100, \$26.15; 1000, \$231.00.		
					133 lbs.			

SEND THIS COUPON for a sample set of Cloverset Pots

Cloverset Farm

Dept. AN 40,

10550 Wornall Rd. Kansas City 14, Mo.

☐ I enclose 50c; send sample set of Cloverset pots (limit, one set).

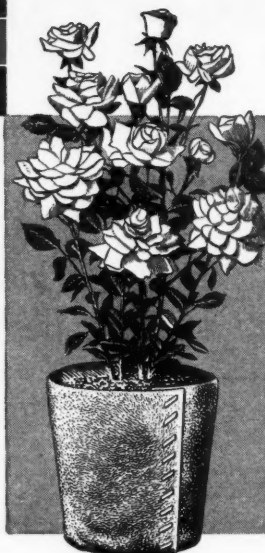
☐ Send information FREE on how to use Cloverset pots for greater profits!

NAME

FIRM

ADDRESS

CITY..... ZONE.... STATE.....



HERE'S WHY CLOVERSET POTS ARE SUPERIOR TO OTHERS...

- 1 Lasts a full year or more in sales frame.
- 2 Contains roots safely within the soil ball; permits transplanting any time.
- 3 Has adequate bottom opening for good drainage without waterlogging; no gravel necessary.
- 4 Rests on wide bottom; no blowing over in the frames.
- 5 Available in sizes to accommodate stock of any salable size.
- 6 Is neat and uniform in appearance, an asset to the sales area.
- 7 Tough enough to permit easy handling in potting shed and frame.
- 8 Easy for customers to remove—at once, a week later or even a month after they take stock home.
- 9 Lightweight (but with all these qualities) to save on freight costs.
- 10 . . . and sufficiently low priced so that it may be given away with the plant.

14. Dr. P. M. Alexander, plant pathologist; Dr. F. W. Thode; John Burger; J. P. Fulmer, and other members of the horticulture department are working out particulars. One of the highlights of the program will be the Tuesday morning discussion on plant nutrition. Dr. R. C. Edwards, president of the college, will give a luncheon talk.

OHIO SHADE TREE MEET

The Ohio chapter of the National Shade Tree Conference has scheduled its summer meeting for July 8, it was announced by L. C. Chadwick, secretary-treasurer of the chapter. The event will take place at Cincinnati.

PLAN MICHIGAN SCHOOL

The annual Michigan nursery and landscape conference, which has been scheduled for August 8 and 9 at Michigan State University, East Lansing, Mich., will be held in Kellogg Center. According to Dr. Donald Watson, of the horticulture department, the 2-day program will be in the nature of a short course, consisting entirely of lectures and laboratory demonstrations.

NEBRASKA SETS DATE

The annual summer meeting of the Nebraska Association of Nurserymen has been set for August 16. Lincoln, Neb., will be the convention city.

PENNSYLVANIA MEET

Members of the Pennsylvania Nurserymen's Association will convene at University Park, Pa., for their annual summer meeting, according to an announcement by the association's secretary, Wilbur I. Nisley. The meeting has been scheduled for August 25.

NEW BLUEGRASS RELEASED

The Newport Bluegrass Association, McMinnville, Ore., this spring announces the release of a limited quantity of seed for its new, superior variety of bluegrass, Newport C-1, developed through 15 years of research. During the early years, the improvement work was carried on by Carnegie-Stanford University scientists; in recent years it has been done by the plant breeders of the Ferry-Morse Co.

"Newport C-1 is outstanding in many respects," said Samuel Backus, president of the Newport Bluegrass

USE VAUGHAN'S GUARANTEED PRODUCTS TO GROW AND MAINTAIN FINE LAWN AND GARDENS

VAUGHAN'S MASTER BLEND MERION FORMULA

The formula proved **best** for producing a famous Merion Lawn. Contains over a million seeds of **pure** Merion strain per lb. Plus the two latest discoveries of turf scientists: First, Delta Blue Grass for quick cover to "nurse" the Merion; second, Pennlawn Fescue for sandy or shady areas. Master Blend adapts to varying soil, moisture and shade to insure a good lawn under practically all conditions.

- Grows greener . . . stays greener all summer.
- Stands closer, less frequent mowing.
- Produces thicker turf . . . spreads faster.
- Crowds out crab grass and other weeds better.
- Resists leaf spot and other diseases.
- Deeper, stronger roots resist drought and heat . . . need less watering.
- Broader, sturdier leaves withstand wear better than other luxury-looking grasses.
- 100% Perennial Grasses . . . 42% Merion Kentucky Blue Grass plus Delta Kentucky Blue Grass and Pennlawn Creeping Red Fescue.
- Costs less because it goes farther . . . sow 1 lb. per 750 sq. ft. . . only 1/3 as much as standard blue grass mixtures.

	Retail	Packed	Cost		Retail	Packed	Cost
1-lb. ctns.	\$ 1.98	Case 25/1 lb.	\$30.00	25-lb. bag	\$ 46.00	Bag 1/25 lb.	\$ 28.00
3-lb. ctns.	5.90	Case 16/3 lb.	\$6.16	50-lb. bag	90.00	Bag 1/50 lb.	55.50
5-lb. bag	9.65	Bale 10/5 lb.	\$7.50	100-lb. bag	178.00	Bag 1/100 lb.	110.00
10-lb. bag	18.80	Bale 2/10 lb.	22.60	Broken Cases 2c per lb. higher.			

MERION STRAIGHT

	Retail	Packed	Cost
1-lb. ctns.	\$ 2.29	Case 25/1 lb.	\$ 40.00
3-lb. ctns.	6.85	Case 16/3 lb.	74.40
5-lb. bag	11.25	Bale 10/5 lb.	76.00
10-lb. bag	22.50	Bale 2/10 lb.	30.00
25-lb. bag	55.00	Bag 1/25 lb.	36.75
50-lb. bag	108.50	Bag 1/50 lb.	73.00
100-lb. bag	210.00	Bag 1/100 lb.	145.00
Broken Cases 2c per lb. higher.			



PRE-KILL 99% EFFECTIVE!

The Midwest Turf Foundation at Purdue University tested pre-emergent crab grass killers on 1000 grass plots. Vaughan's Pre-Kill was proved 99% effective . . . best on the market! If applied **now**, Pre-Kill's calcium arsenate puts a barrier in the soil that prevents crab grass's growing. Spread according to directions, Pre-Kill gives **PERMANENT PROTECTION**. Also controls chickweed, Poa annua. Banishes grubs, cutworms, moles.

Size	Packed	Cost	Retail
1000 sq. ft.	4-Wt. 114 lbs.	\$17.82	\$ 4.95
2500 sq. ft.	12-Wt. 552 lbs.	78.84	10.95

K.O.—ALL-IN-ONE WEED KILLER!

Knocks out both crab grass and weeds. Contains Sodar® the proved post-emergent crab grass killer plus 2,4-D for definite destruction of broad-leaved weeds. And now this double-death-dealing weed control comes in a choice of three easy-to-use application forms:

DRY K.O. FOR SPREADING

Size	Packed	Cost	Retail
9 lbs. (2500 sq. ft.)	4-Wt. 38 lbs.	\$ 9.48	\$3.95
18 lbs.	10-Wt. 190 lbs.	41.70	6.95

LIQUID K.O. FOR SPRAYING

Pint (1500 sq. ft.)	12-Wt. 20 lbs.	16.92	2.35
Quart	12-Wt. 35 lbs.	28.44	3.95

K.O. SHAKER BOX, SPOT-TREATS AVERAGE LAWN

4 lbs.	12-Wt. 50 lbs.	16.20	2.25
-------------	---------------------	-------	------

VAUGHAN'S ROSE AND PLANT DUST OR SPRAY PROTECTS COMPLETELY!

Cures practically every insect or fungus trouble a plant can have . . . red spider, mites, black spot, powdery mildew, etc. Contains 7 1/2% Phaltan—the newest and finest fungicide—plus 4% Malathion and 5% DDT to kill all leaf-eating and juice-drinking insects. 8 oz. is a refillable applicator gun.

Size	Packed	Cost	Retail
8 oz.	24-Wt. 22 lbs.	\$17.14	\$1.19
1 lb.	12-Wt. 18 lbs.	10.73	1.49
4 lb.	8-Wt. 35 lbs.	23.90	4.98

CHICKWEED KILLER

Powerful new formula makes it a positive destroyer of hard-to-control chickweed (and clover). Handy new shaker can for easy application treats average lawn. Safe on most fine grasses but will remove bent grass from blue grass lawns.

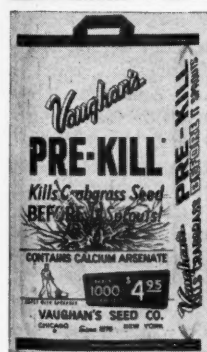
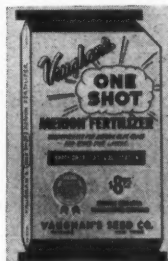
Size	Packed	Cost	Retail
10 oz.	12-Wt. 15 lbs.	\$6.98	97c

ONE SHOT FEEDS BEST, COSTS LESS

Yes, just one easy spreader application keeps luxury lawns green and beautiful ALL SEASON. Grass uses 4 times more nitrogen than it does phosphorus or potash. One Shot's 20-5-5 formula feeds all this nitrogen at a lower yearly cost than any other lawn food. Amazing new Du Pont Uramite releases over 50% of One Shot's massive nitrogen content g-r-a-d-u-a-l-l-y all season . . . prevents leaf burn.

So, though the first cost of One Shot is higher, it does the best feeding job and costs least—besides saving application labor! 50-lb. bag feeds 2500 sq. ft. all season.

Size	Packed	Cost	Retail
25 lbs.	12-Wt. 306 lbs.	\$36.50	\$4.95
50 lbs.	12-Wt. 610 lbs.	66.00	8.95



CHICAGO 6
601-609 W. Jackson Blvd.
Phone: Franklin 2-7560

Vaughan's Seed Co.
THE FLOWER SEED HOUSE OF AMERICA

NEW YORK 13
85 White St.
Phone: Barclay 7-4900

POT-GROWN LINING-OUT STOCK

GRAFTED STOCK FOR SPRING, 1960, DELIVERY

	10	100		10	100
<i>Acer palmatum dissectum</i>			<i>Chamaecyparis plumosa</i>		
<i>atropurpureum</i>	\$7.50	\$65.00	Gold Dust	\$3.00	\$20.00
<i>Acer platanoides columnare</i> ..	7.50	65.00	<i>Chamaecyparis plumosa</i>		
<i>Acer platanoides</i>			<i>sulphurea</i>	3.00	20.00
Faassen's Black	7.50	65.00	<i>Cotoneaster adpressa</i>		
<i>Acer saccharum</i>			<i>praecox</i>	3.00	20.00
<i>monumentale</i>	7.50	65.00	<i>Cotoneaster conspicua</i>		
<i>Chamaecyparis obtusa</i>			<i>decidua</i>	3.00	20.00
<i>compacta</i>	6.00	50.00	<i>Cotoneaster horizontalis</i> ..	3.00	20.00
<i>Chamaecyparis obtusa</i>			<i>Cotoneaster horizontalis</i>		
<i>gracilis</i>	6.00	50.00	<i>adpressa</i>	3.00	20.00
<i>Cornus florida alba plena</i> ..	6.50	55.00	<i>Cotoneaster horizontalis</i>		
<i>Cornus florida pendula</i> ..	7.50	65.00	<i>compressa</i>	3.00	20.00
<i>Cornus florida rubra</i>	6.50	55.00	<i>Cotoneaster horizontalis</i>		
<i>Cornus florida rubra Prosser</i>			<i>perpusilla</i>	3.00	20.00
(Red-Flowering			<i>Franklinia alatamaha</i> ..		
<i>Dogwood</i>)	7.50	65.00	8 to 12 ins.	5.00	40.00
<i>Cornus kousa chinensis</i> ..	6.50	55.00	<i>Ilex aquifolium</i>		
<i>Cupressus arizonica gaelei</i> ..	6.50	55.00	<i>ciliata major</i>	5.00	40.00
<i>Fagus sylvatica asplenifolia</i> ..	6.50	55.00	<i>Ilex crenata helleri</i> ..	3.00	20.00
<i>Fagus sylvatica fastigiata</i> ..	6.50	55.00	<i>Ilex glabra</i>	3.00	20.00
<i>Fagus sylvatica heterophylla</i> ..	6.50	55.00	<i>Ilex opaca femina</i> ..		
<i>Fagus sylvatica pendula</i> ..	6.50	55.00	named varieties	5.00	40.00
<i>Fagus sylvatica reversi</i> ..	6.50	55.00	<i>Ilex opaca mascula</i> ..	5.00	40.00
<i>Ilex pernyi, female</i>	7.50	65.00	<i>Juniperus depressa plumosa</i> ..	3.00	20.00
<i>Ilex pernyi, male</i>	7.50	65.00	<i>Juniperus glauca hetzi</i> ..	3.00	20.00
<i>Juniperus chinensis Maney</i> ..	6.50	55.00	<i>Juniperus pfitzeriana</i> ..	3.00	22.50
<i>Juniperus chinensis</i>			<i>Juniperus pfitzeriana</i>		
<i>Mounthatten</i>	6.50	55.00	<i>compacta</i>	3.00	22.50
<i>Magnolia stellata</i>	7.50	65.00	<i>Magnolia Pink Alba</i> ..	4.50	35.00
<i>Magnolia stellata rubra</i> ..	7.50	65.00	<i>Magnolia rustica rubra</i> ..	4.50	35.00
<i>Magnolia stellata</i>			<i>Magnolia soulangiana</i> ..	4.50	35.00
<i>Water Lily</i>	7.50	65.00	<i>Magnolia soulangiana nigra</i> ..	4.50	35.00
<i>Thuja orientalis conspicua</i> ..	5.50	45.00	<i>Magnolia stellata</i>	4.50	35.00
<i>Thuja orientalis</i>			<i>Pieris japonica</i>	3.00	20.00
<i>elegantissima</i>	5.50	45.00	<i>Prunus laurocerasus</i>		

SPECIALTY ITEMS— LIMITED QUALITY

	Each
<i>Cornus florida welchii</i>	\$1.00
<i>Fagus sylvatica Tricolor</i>	1.00
<i>Magnolia conspicua</i>	1.00
<i>Magnolia cordata</i>	1.00
<i>Magnolia sieboldii parviflora</i> ..	.85

CUTTINGS FORM 2 1/4-IN. POTS

	10	100
<i>Azalea Delaware</i>		
Valley White	\$3.00	\$20.00
<i>Azalea Hino-Crimson</i>	3.00	20.00
<i>Berberis julianae</i>	3.00	20.00
<i>Berberis thunbergii atropurpurea</i>		
Crimson Pygmy	3.00	20.00
<i>Berberis verruculosa</i>	3.50	25.00
<i>Buxus handsworthii</i>	3.00	20.00
<i>Chamaecyparis filifera aurea</i> ..	3.00	20.00

Our complete list of seedlings, cuttings, transplants and grafts will be sent on request.

HESS' NURSERIES

P. O. Box No. 128

Wayne, N. J.

Growers of Quality Liners Since 1922

A NEW BOXWOOD

(Introduction of the Arnold Arboretum)

BUXUS SEMPERVIRENS VARDAR VALLEY

Cuttings started at Arnold Arboretum in 1935, developed to 24 ins. high and 48 ins. wide. Has stood -23 degrees Fahrenheit without injury to plant or top. Leaves are of good size, a fine dark green throughout the winter. It is one of the hardiest boxwoods ever known and perfect for foundation planting, as well as specimens. Stock is limited; spring, 1960, May shipment.

3-in. pot plants, 5 to 7 ins., \$20.00 per 10;
\$150.00 per 100; \$300.00 per 250.
50 at 100 rate.

KINGSVILLE NURSERIES

Kingsville, Md.

Association. "For either commercial or home lawns, we expect C-1 to offer three major advantages. It gives faster, more certain and better stand establishment. It provides a blue-green appearance that sets it apart from similar types of turf grasses. It has the unusual reserves to give outstanding performance over longer periods of time, even when the going is tough."

In 1944, William E. Lawrence, maritime plant collector of the Carnegie institution laboratory of Stanford University, was collecting plants on the Oregon seacoast near Newport. When Dr. Jens Clausen, of the Carnegie staff, classified Mr. Lawrence's plants, he discovered a single plant of Kentucky-type bluegrass that appeared to be a native plant, although bluegrass had never before been found in the area.

This single plant was grown at Stanford University for the first time in 1945-46, because of its blue-green color and its remarkable growth habits. The task of building up experimental quantities of seed from the Stanford University plots began in 1947. Later, two ounces of seed were placed in the hands of C. P. Morse, so that the Ferry-Morse plant breeding staff could work with this new type of bluegrass. There emerged one selection that was clearly better than all the others. This plot was designated No. C-1 in the trials; hence the name, Newport C-1.

With the formation of the Newport Bluegrass Association, the C-1 breeding materials and foundation stocks, as well as the responsibility for continuing research work, were placed with the association, whose members will produce the seed in several production areas of Oregon. The foundation seed is being produced on the seed farm of Otto Bohnert, Central Point, Ore.

Foundation stocks have been built up to a point where major Newport C-1 seed production can begin in 1960. A pilot crop was produced in 1959 and is now being released for sale. Seed production will be in charge of Stanley Cellers, of the Buchanan-Cellers Co., who has had years of experience in production of pedigreed grass seed. The Newport Bluegrass Association is immediately launching its first promotion program in behalf of Newport C-1 with a view to developing a satisfactory market as seed production increases.

GREENWAY NURSERY, 531 North Bolton street, Jacksonville, Tex., recently held its formal opening.

NOTHING

BUT NOTHING!



CAN BEAT THIS COMBINATION!

FINER LINERS IN JIFFY-POTS

✓ NO SHOCK

✓ FASTER GROWTH

✓ FEWER LOSSES

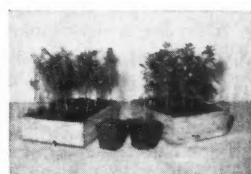
Top-quality nursery stock in lightweight peat moss pots . . . direct from us to you . . . without being disturbed. FINER LINERS in JIFFY-POTS are grown, sold and shipped in lightweight veneer trays that can be easily carried to where you want them or held until you are ready. No problems, no high shipping costs and NO PACKING CHARGES!

2 1/4-in. Pot	Tray of 12*	Tray of 36
<i>Acer palmatum atropurpureum</i> , S.	\$5.40	\$16.20
<i>Acer palmatum atropurpureum</i>	9.00	23.40
<i>Azalea mollis</i> , S.	2.52	5.76
<i>Azalea William III</i> , S.	2.76	6.48
<i>Berberis thunbergii atropurpurea nana</i>	3.24	7.92
<i>Buxus Croni</i>	2.64	6.12
<i>Buxus microphylla koreana</i>	2.64	6.12
<i>Buxus Newport</i> , blue	2.64	6.12
<i>Ilex aquifolium</i> , female	4.44	11.52
<i>Ilex aquifolium</i> , male	4.44	11.52
<i>Ilex aquifolium pyramidalis</i> , female	4.44	11.52
<i>Ilex crenata convexa</i> (bullata)	2.64	6.12
<i>Ilex crenata Flushing</i> , hardy	3.24	7.92
<i>Ilex crenata Glass</i>	2.64	6.12
<i>Ilex crenata Green Thumb</i>	3.60	7.92
<i>Ilex crenata helleri</i>	2.64	6.12
<i>Ilex crenata latifolia</i>	2.64	6.12
<i>Ilex crenata microphylla</i>	2.64	6.12
<i>Ilex crenata rotundifolia</i>	2.64	6.12
<i>Ilex glabra compacta</i>	2.64	6.12
<i>Ilex opaca</i> , female	4.44	11.52
<i>Ilex opaca Clark</i>	4.44	11.52
<i>Ilex opaca Farage</i>	4.44	11.52
<i>Ilex opaca Manig</i>	4.44	11.52
<i>Ilex opaca mascula</i> , male	4.44	11.52
<i>Ilex opaca pyramidalis</i>	4.44	11.52
<i>Juniperus pfitzeriana Armstrong</i>	3.24	7.92
<i>Juniperus horizontalis plumosa</i>	3.24	7.92
<i>Leucothoe catesbaei</i> , S.	2.52	5.76
<i>Pieris floribunda</i> , S.	3.00	7.20
<i>Pieris japonica</i> , S.	2.64	6.12
<i>Prunus laurocerasus schipkaensis</i>	3.30	8.10
<i>Pyracantha coccinea lalandi</i>	2.64	6.12
<i>Pyracantha coccinea Lowboy</i>	2.64	6.12
<i>Pyracantha pauciflora</i>	2.64	6.12
<i>Rhododendron carolinianum</i> , S.	2.40	7.50
<i>Rhododendron catawbiense</i> , hybrids, S., red, pink or white	3.24	7.92
<i>Sarcococca hookeriana humilis</i>	2.88	6.84
<i>Taxus cuspidata Vermeulen</i>	2.76	6.48
<i>Taxus media Halloran</i>	2.76	6.48
<i>Taxus media kelseyi</i>	2.76	6.48
<i>Taxus media kelseyi</i> , upright	2.76	6.48
<i>Taxus</i> , verticals, tall and slender	3.60	9.00

3-in. Pot	Tray of 6*	Tray of 25
<i>Azalea calendulacea</i> , S.	\$2.40	\$ 7.50
<i>Azalea Ghent</i> , hybrids, S.	2.70	8.75
<i>Azalea kaempferi</i> , S.	2.40	7.50
<i>Azalea mollis</i> , S.	2.70	8.75
<i>Azalea poukhanensis</i> , S.	2.40	7.50
<i>Azalea William III</i> , S.	2.40	7.50
<i>Franklinia alatamaha</i>	2.70	8.75
<i>Hedera helix Albany</i>	2.40	7.50
<i>Ilex crenata Green Thumb</i>	2.40	7.50
<i>Ilex glabra compacta</i>	2.40	7.50
<i>Ilex opaca</i> , female	3.60	12.50
<i>Ilex opaca Arden</i>	3.60	12.50
<i>Ilex opaca Clark</i>	3.60	12.50
<i>Ilex opaca Mae</i>	3.60	12.50
<i>Ilex opaca Manig</i>	3.60	12.50
<i>Ilex opaca mascula</i> , male	3.60	12.50
<i>Ilex opaca pyramidalis</i>	3.60	12.50
<i>Kalmia latifolia</i> , S.	2.70	8.75
<i>Leucothoe axillaris</i>	3.00	8.75
<i>Leucothoe catesbaei</i> , S.	2.40	7.50
<i>Magnolia rustica rubra</i>	3.60	12.50
<i>Magnolia soulangiana</i>	3.30	11.25
<i>Magnolia stellata</i>	3.60	12.50
<i>Magnolia stellata Water Lily</i>	3.60	12.50
<i>Pieris floribunda</i> , S.	2.70	8.75
<i>Pieris japonica</i> , S.	2.40	7.50
<i>Pieris japonica compacta</i>	3.00	10.00
<i>Pieris japonica Pink Bud</i>	3.00	10.00
<i>Prunus kwanan</i>	3.30	11.25
<i>Prunus laurocerasus schipkaensis</i>	2.70	8.75
<i>Rhododendron carolinianum</i> , S.	2.40	7.50
<i>Rhododendron catawbiense</i> , hybrids, S., red, pink or white	2.70	8.75
<i>Rhododendron maximum</i> , S.	2.40	7.50
<i>Rhododendron myrtifolium</i>	3.00	10.00
<i>Rhododendron wilsoni</i>	3.00	10.00
<i>Viburnum fragrans</i>	3.30	11.25
<i>Viburnum rhytidophyllum</i>	3.00	10.00
<i>Viburnum sieboldi</i>	2.40	7.50
<i>Viburnum tomentosum plicatum</i>	2.40	7.50
<i>Wistaria floribunda multiflora</i>	2.70	8.75

*Trays of 6 and 12 must be ordered in multiples of 6 (example—6 trays, 12 trays, 18 trays, etc.) For less than 6 trays or intermediate quantities add 50¢ per tray.

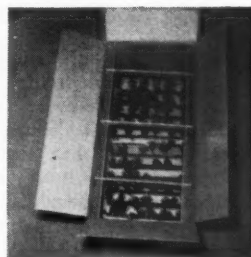
S.—denotes from seed, all others from cuttings.



Trays of 12 *Taxus* and Japanese Holly



Tray of 36 American Holly



Two Trays of 36 FINER LINERS Ready for Safe Shipment Anywhere



JOHN VERMEULEN & SON, INC.

Neshanic Station, N. J.

Descriptive catalog mailed on request.

Growing top-quality hardy liners exclusively since 1921.



CHARLIE CHESTNUT

A WINTER MORNING



"What in the world are you up to?" I said to Emil one winter morning when I came to work. He was hunched over his desk and he had his old pruning knife in his hand and he was scraping at something.

"Its my dang lower plate," Emil said. "It dont fit. I got a row of carbunkles on one side and a row of warts on the other side of my jaw. This morning, when I come down on a hunk of bacon, it felt like I had a mouthful of tenpenny nails. Right here its too high," he said, holding up the plate for a new look.

"Why don't you take it back to Doc Potts," I said. "Tell him it ain't good for nothing. Don't let him get away with it."

"I can't do that," Emil said. "Doc told me the honeysuckles I traded for this plate was scrawney and mostly dead, and after I told him his contraption fit like it was made for his own grandmother, Doc said to bring it back and take my dead brush and we would call it square. You see I ain't got a leg to stand on," Emil replied, putting away his knife and snapping his plate in his mouth.

"What's on the docket this morning, Emil?" I said. "What are we going to work on?"

He picked up a sheaf of papers on his desk and started shuffling thru. "Here's that big Soft Maple for Mrs. Morse," Emil says, "it's froze hard enough this morning so we can dig it."

"I'm telling you, Emil," I said, "we'll never be able to lift it with our hoist. Let's see the order, one 6-inch Maple for \$100.00. You ain't going to make out on that. In the first place, it ain't 6-inch, it's more like 8-inch and it ain't been moved in the last ten years. You will have to get a 8-foot ball in order to get any roots. You won't be able to lift one corner of the ball with our hoist and besides 2 of the notches are busted off the little gear of the hoist. Better get that fixed before we start."

"I can get it welded for about \$5.00," Emil said. "That ain't nothing to worry about. Better take the hoist down first and get it welded, before we even start to dig the tree."

So I went over to Ted's Welding shop to see if he could do it. "I

wouldn't touch the job under \$25.00," Ted said "and I ain't too sure it will hold anyway. That hoist is 40 years old and the metal is crystalized—might not last."

I took it home and reported to Emil. "Why the old robber!" said Emil. "I only paid \$40.00 for the whole outfit when I had it made years ago. Ben Ballard, who ran the blacksmith shop in them days, made it for me, let's see, it was just before the first world war. I got the parts at an auction, as I remember. We'll use it anyway. It may slip a little but it will hold while we lift it."

"We're going to have to chop out a tree on each side as they are too

close together to dig with a ball. I'll get the saw and the ax and we will start to get ready. It ain't going to be too easy digging with all them roots from the other trees in the way," I said.

"Better sharpen that saw before we begin and it wouldn't hurt to run that ax over the grindstone. I'll go down town and get a new file," Emil said, "and you sharpen the ax."

"One person can't turn the grindstone and hold the ax at the same time," I said. "You better help me with that." We looked but couldn't find the ax any place. "Last time we had the ax was on that job in Lake Park where we grubbed out all the

THE RHODE ISLAND NURSERIES, INC.

Newport, R. I.

Lining-Out Stock

<i>Azalea mucronulata</i> , 3-yr., T.	<i>Taxus cuspidata</i> , 2-yr., T.
<i>Berberis thunbergii atropurpurea</i> , 2-yr., S. 15 to 18 ins. 18 to 24 ins.	4-yr., TT.
<i>Cornus florida</i> , understock grade, 2-yr., T.	<i>Taxus cuspidata nana brevifolia</i> , 2-yr., T.
<i>Euonymus patens</i> , 3-yr., T.	<i>Taxus cuspidata densiformis</i> , 2-yr., T.
<i>Forsythia Lynwood Gold</i> , 2-yr., 18 to 24 ins.	<i>Taxus media browni</i> , 2-yr., T.
<i>Forsythia spectabilis</i> , 2-yr., 18 to 24 ins.	<i>Taxus media hatfieldi</i> , 2-yr., T.
<i>Hydrangea P. G.</i> , 2-yr., T.	<i>Taxus media Halloran</i> , 2-yr., T.
<i>Leucothoe catesbaei</i> , 3-yr., TT.	<i>Taxus media hicksi</i> , 2-yr., T.
<i>Myrica pensylvanica</i> , 2-yr., T.	<i>Taxus media nigra</i> , 2-yr., T.
<i>Picea pungens</i> , 4-yr., TT.	<i>Taxus media thayerae</i> , 2-yr., T.
<i>Pieris japonica</i> , 4-yr., TT.	<i>Viburnum dentatum</i> , understock grade, 2-yr., T.

PRICES ON REQUEST

SURPLUS STOCK

Douglas Fir, blue, 3-yr., 4 to 8 ins.
\$200.00 per 10,000 or \$25.00 per 1000.
Cash with order, packing free.
F. O. B. Angola, N. Y.

ARTHUR CASH NURSERY
Angola, N. Y.

Pronouncing Dictionary

of Plant Names and Botanical Terms

64 pages, 3000 names, 25¢ per copy

AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

Design
in retail
tion du
grate a
treated
soil. Fiv

Add 3
For a
shrubs
6½", 5



Bird Growing Containers save you time and labor; enable you to command top prices for prime plants; are economical through low cost. Order from your distributor or send coupon for prices and complete information.



Grow More Profits
with **BIRD**
GROWING CONTAINERS



BIRD VITA-GREEN POTS

Ideal For Re-Sale

Designed for rough handling involved in retail sales. Slow down root penetration during early growth, yet disintegrate after transplanting. Nutrient treated to prevent nitrogen depletion of soil. Five sizes: 2¼", 2½", 3", 3½", 4".



BIRD PERENNIAL POTS

Durable — Inexpensive

Add 3-5 months to your sales season. For all perennials — roses, mums, shrubs, bulbs. Four sizes — 5", 5½", 6½", 9½" heights.



BIRD VITA-BANDS

Prevent Transplant Shock

Nutrient treated to prevent nitrogen depletion of soil. Contain roots to transplant stage. Promote early maturity. Vita-Band "10" for annual and vegetable plants. Vita-Band "H" for perennials and long-term crops. Vita-Band "D" for mechanical transplanting. 8 sizes.



BIRD GRO-TAINERS®

For Volume Sales

Help promote sale of twelve or six plants at one time. Durable fibre construction. Lightweight. Drainage holes for proper moisture control. Sidewall aeration. Tapered sides. Three convenient sizes.

Quality Products Since 1795
FLOOR COVERINGS • ROOFING & SIDINGS
CORRUGATED & PAPERBOARD BOXES
INDUSTRIAL PRODUCTS



BIRD & SON, inc., Dept. AN
East Walpole, Massachusetts

Please send me complete information and prices on Bird Growing Containers.

Name

Street & No.

City & State

BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage, over 200,000 spring delivery. All B&B.

Amoena	Each	Addy Wery	Each
8 ins.	\$.75	8 ins.	\$1.00
10 ins.	1.00	10 ins.	1.25
12 ins.	1.25	12 ins.	1.50
Coral Bella		15 ins.	2.50
8 ins.	.75	18 ins.	3.50
10 ins.	1.00	Daybreak, Kurume	
12 ins.	1.25	8 ins.	.75
Hinodegiri		10 ins.	1.00
Our Hinod are very dark red.		12 ins.	1.25
8 ins.	.75	15 ins.	2.00
10 ins.	1.00	18 ins.	2.50
12 ins.	1.25	Favorite	
15 ins.	2.00	8 ins.	.75
18 ins.	2.50	10 ins.	1.00
20 ins.	3.50	12 ins.	1.25
24 ins.	5.00	15 ins.	2.00
30 ins.	6.00	18 ins.	2.50
36 ins.	7.50	Polaris	
Orange Beauty, Kurume		8 ins.	.75
8 ins.	.75	10 ins.	1.00
10 ins.	1.00	12 ins.	1.25
12 ins.	1.25	Beethoven	
15 ins.	2.00	8 ins.	.75
Hino-Crimson		10 ins.	1.00
8 ins.	.75	12 ins.	1.25
10 ins.	1.00	15 ins.	2.00
12 ins.	1.25	18 ins.	2.50
15 ins.	2.00	20 ins.	3.50
Snow		Johann Strauss	
8 ins.	.75	8 ins.	.75
10 ins.	1.00	10 ins.	1.00
12 ins.	1.25	12 ins.	1.25
Ledifolia Alba		15 ins.	2.00
8 ins.	.75	18 ins.	2.50
10 ins.	1.00	20 ins.	3.50
12 ins.	1.25	Lilacina	
15 ins.	2.00	8 ins.	.75
18 ins.	2.50	10 ins.	1.00
20 ins.	3.50	12 ins.	1.25
Maxwell		15 ins.	2.00
8 ins.	.75	18 ins.	2.50
10 ins.	1.00	20 ins.	3.50
12 ins.	1.25	24 ins.	5.00
15 ins.	2.00	Kaempferi	
18 ins.	2.50	Hardest of all azaleas; sheared, well-budded, heavy.	
Louise Gable		Othello, Salmon Beauty, Fedora and Carmen	
8 ins.	1.00	8 ins.	.75
10 ins.	1.25	10 ins.	1.00
12 ins.	1.50	12 ins.	1.25
Rose Bud		15 ins.	2.00
8 ins.	1.00	18 ins.	2.50
10 ins.	1.25	20 ins.	3.50
12 ins.	1.50	24 ins.	5.00
Rose Greely		30 ins.	6.00
8 ins.	1.00	36 ins.	7.50
10 ins.	1.25		

1-yr., T., \$125.00 per 1000.

Our azalea beds are treated for shipment outside Japanese Beetle zone.

BAIER LUSTGARTEN

Phone: Yaphank 4-3444

Jericho Turnpike, Middle Island, L. I., N. Y.

Long Island's Largest Nurseries
WRITE FOR CATALOG.

**GUARANTEED-TO-LIVE
TRANSPLANTED EVERGREENS**

	Per 1000
Austrian Pine, 4-yr. transplants (2-2), 8 to 15 ins.	\$ 70.00
Colorado Blue Spruce, 5-yr. transplants (2-3), 6 to 10 ins.	150.00
Norway Spruce, 4-yr. transplants (2-2), 4 to 10 ins.	70.00
White Spruce, 4-yr. transplants (2-2), 6 to 10 ins.	70.00
White Spruce, 3-yr. transplants (2-1), 3 to 6 ins.	60.00

SEEDLINGS (Not Guaranteed)

Douglas Fir, 2-yr. seedlings (2-0), 2 to 4 ins.	30.00
Fraser Fir, 2-yr. seedlings (2-0), 2 to 4 ins.	25.00
Scotch Pine (Austrian Hill), 2-yr. seedlings (2-0), 4 to 8 ins.	25.00
Scotch Pine (North German), 2-yr. seedlings (2-0), 3 to 5 ins.	25.00
Scotch Pine (Spanish), 2-yr. seedlings (2-0), 4 to 8 ins.	25.00
White Pine, 2-yr. seedlings (2-0), 3 to 5 ins.	25.00
Colorado Blue Spruce, 4-yr. seedlings (4-0), 6 to 12 ins., root pruned.	50.00
Norway Spruce, 3-yr. seedlings (3-0), 4 to 8 ins.	30.00
European Larch, 2-yr. seedlings (2-0), 4 to 10 ins.	30.00
Japanese Black Pine, 2-yr. seedlings (2-0), 3 to 6 ins.	25.00

TERMS

Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts. 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

If they are grown in Maine they will grow anywhere. Several other varieties of transplants available. Send for complete list of stock.

WESTERN MAINE FOREST NURSERY CO.

Dept. AN-430

Fryeburg, Maine

stuff in back of the garage. I ain't seen it since," I said.

"You run over to Lake Park and see if you can find it and I will go down and get a file so we can sharpen up the saw," Emil said.

So I took off for Lake Park. It's 12 miles over there by the back road, I was back in about an hour with no ax. It wasn't there. I found the ax in the corn crib under a pile of burlap. I didn't say nothing to Emil about that. He didn't get back from town until 11:30 as he wasted an hour or more making plans with Doc Hart to go ice fishing on Bowers Lake.

It was nearly 3 o'clock when we got things ready for the assault on the Maple. We didn't have enough hay down to stop the ground from freezing solid. "We ain't never going to get thru that frost with a pick," I said. "We'll have to get an air hammer. We can rent one from Vince Bullis."

"I'll drive down town and see if he can help us out," Emil said. That was the last I seen of him that day. There is no telling where he got to.

Next morning I said to him, "How did you make out with the air hammer?"

"Vince wanted \$10.00 an hour for his compressor and air hammer and he wants to charge from the time we pick it up until we return it, I figure we can use a sledge and a few wedges and break up the little crust on top of the ground."

Next morning there was a blizzard so we spent the day in the office going over want lists and making up a lot of useless quotations on stuff we never expected to hear from again.

"They don't make up the want lists like the old days. It used to be a person could make up quite a few trades in the winter. We ain't had a good trade in years," Emil said, "not since the time I traded a carload of honeysuckle with John Bushbottom for a carload of silver maples." That's the tail end of the maples I was telling about. Most of them we never sold, but once in a while we get to sell one or two trees.

The next day we started chopping and sawing and trying to start the big earth ball. We hadn't made much headway by noon. Emil ain't too much help. Most of the time he runs imaginary errands down town, going back to the office to open the mail, and getting a cup of coffee. I could do better by myself.

I worked two days digging and grubbing out roots until I had a hole big enough to bury a Volkswagon. Then it started to drizzle and it



Which one ordered from **A**rmintrout?

PRICE LIST

SPRING,

1
9
6
0

OUR
23rd
YEAR



BLUE SPRUCE
OUR
SPECIALTY

COLORADO BLUE SPRUCE

Ready for spring shipment . . . an extra-fine assortment of Colorado Blue Spruce—our specialty, as always. We have purchased our seed from the same source for nearly 17 years and grow more than a million "blues" a year.

*Due to poor germination in our Blue Spruce seeding three years ago, those that did grow proved to be much better stock—as a result of lower density—than we've ever offered. We will admit you'll find them slightly higher priced, but compare quality, too!

	Per 100	Per 1000	2500 Per 1000	10,000 Per 1000
(2-0), 2 to 4 ins.	\$ 4.00	\$20.00	\$17.50	\$15.00
(3-0), 4 to 6 ins.	6.00	30.00	.....	.....
(3-0), 6 to 10 ins.	10.00	.....	.....	.....
(2-2), 2 to 4 ins.	8.00	40.00	37.50	35.00
(2-3), 4 to 6 ins.	10.00	50.00	.....	.....
(2-3), 6 to 8 ins.	15.00	.....	.....	.....
(2-3), 8 to 10 ins.	20.00	.....	.....	.....

BLACK HILLS SPRUCE

(3-0), 2 to 4 ins.	4.00	20.00	.....	.....
(3-0), 3 to 6 ins.	7.00	35.00	.....	.....

NORWAY SPRUCE

(2-0), 2 to 4 ins.	3.50	15.00	.....	.....
3 to 6 ins.	4.00	.....	.....	.....
6 to 8 ins.	7.00	.....	.....	.....
(2-2), 3 to 6 ins.	7.00	35.00	.....	.....
(2-2), 6 to 10 ins.	10.00	50.00	.....	.....

BLACK SPRUCE (*Picea mariana*)

(2-0), 3 to 6 ins.	4.00	20.00
-------------------------	------	-------	-------	-------

WHITE SPRUCE

(2-0), 2 to 4 ins.	3.50	15.00	.....	.....
3 to 6 ins.	4.00	.....	.....	.....
6 to 8 ins.	7.00	.....	.....	.....
(2-2), 3 to 8 ins.	9.00	45.00	.....	.....

SCOTCH PINE—an extra special

We are offering five varieties of Scotch Pine. These seedlings are grown from certified seed, hand picked from selected stands chosen for their ornamental qualities and imported by us from Scotland. Don't confuse them with ordinary Christmas tree stock!

(2-0), 3 to 5 ins.	5.00	25.00
-------------------------	------	-------	-------	-------

FRENCH SCOTCH PINE

This Scotch Pine speaks with a French accent! Those listed here are more familiarly known in the trade as French Blue or French Green, long recognized by nurserymen as the very best ornamental Scotch Pine. Grown from imported French seed, this stock looks very promising.

(2-0), 2 to 4 ins.	2.50	10.00	9.00	.....
(2-0), 3 to 6 ins.	3.50	17.50	15.00	14.00
(3-0), 6 to 15 ins.	5.00	22.50	20.00	18.00
(2-2), 4 to 10 ins.	8.00	40.00	.....	.....

AUSTRIAN PINE

(2-0), 2 to 4 ins.	2.50	10.00	9.00	8.00
(2-0), 3 to 6 ins.	3.50	15.00	13.50	12.50
(3-0), 6 to 12 ins.	5.00	20.00	17.50	15.00

RED PINE

(3-0), 6 to 12 ins.	5.00	25.00
--------------------------	------	-------	-------	-------

JAPANESE BLACK PINE

(3-0), 6 to 12 ins.	10.00	50.00
--------------------------	-------	-------	-------	-------

MUGHO PINE—the true Dwarf Pumilio

(3-0), 2 to 3 ins.	6.00	25.00
-------------------------	------	-------	-------	-------

WHITE FIR (*Abies Concolor*)

(2-0), 3 to 6 ins.	10.00	50.00	.....	.....
(2-3), 6 to 12 ins.	25.00	.....	.....	.....

WHITE PINE

(2-0), 2 to 4 ins.	3.50	15.00
-------------------------	------	-------	-------	-------

JACK PINE

(2-0), 4 to 8 ins.	17.50	15.00	12.50
-------------------------	-------	-------	-------	-------

DOUGLAS FIR, glauca variety

(2-0), 2 to 4 ins.	4.00	20.00	.....	.....
(2-0), 3 to 6 ins.	5.00	25.00	.....	.....
(2-2), 3 to 8 ins.	10.00	55.00	.....	.....

BRISTLECONE PINE

(2-0), 2 to 4 ins.	7.00	35.00
-------------------------	------	-------	-------	-------

AMERICAN ARBORVITAE

(2-0), 2 to 3 ins.	5.00	25.00
-------------------------	------	-------	-------	-------

UPRIGHT JAPANESE YEW

(2-2-3), 10 to 15 ins., \$1.50 each.
--------------------------------------	-------	-------	-------	-------

TERMS: Minimum order \$5.00. Quantities of 50, 500 and 12,500 of a size and kind are sold at the 100, 1000 and 25,000 price, respectively. Orders may be booked one-fourth cash and balance C.O.D. All prices F.O.B. Allegan.



Member of Michigan
Association of Nurserymen

Member of American
Association of Nurserymen

ARMINTROUT'S
Evergreen Nursery

1 Mile East of Allegan on 113th Ave.

Allegan, Mich.
Telephone: ORchard 3-2704

PLANT PIKES PEAK NURSERY STOCK FOR BEST RESULTS

Seedlings and Transplants

SCOTCH PINE

(<i>Pinus sylvestris</i>)	Per 100	Per 1000
(2-0), 2-yr., S., 2 to 3 ins. . . .	\$ 7.50	
(2-0), 2-yr., S., 4 to 6 ins. . . .	2.75	17.50
(3-0), 3-yr., S., 8 to 15 ins. . . .	4.25	27.50
(2-2), 4-yr., T., 10 to 18 ins. . . .	6.00	40.00
(2-3), 5-yr., T., 12 to 24 ins. . . .	8.25	55.00

WHITE PINE

(<i>Pinus strobus</i>)	Per 100	Per 1000
(2-0), 2-yr., S., 4 to 6 ins. . . .	3.00	20.00
(3-0), 3-yr., S., 5 to 10 ins. . . .	4.50	30.00
(2-1), 3-yr., T., 3 to 6 ins. . . .	6.75	45.00
(2-2), 4-yr., T., 6 to 14 ins. . . .	8.25	55.00

COLORADO BLUE SPRUCE

(<i>Picea pungens</i>)	Per 100	Per 1000
(2-0), 2-yr., S., 3 to 6 ins. . . .	3.75	25.00
(3-0), 3-yr., S., 4 to 8 ins. . . .	6.75	45.00
(3-0), 3-yr., S., 6 to 12 ins. . . .	8.25	55.00
(2-2), 4-yr., T., 6 to 10 ins. . . .	12.00	80.00



NORWAY SPRUCE

(<i>Picea abies</i>)	Per 100	Per 1000
(2-0), 2-yr., S., 4 to 6 ins. . . .	\$ 3.50	\$22.50
(3-0), 3-yr., S., 8 to 16 ins. . . .	5.25	35.00
(2-2), 4-yr., T., 8 to 15 ins. . . .	9.00	60.00
(2-3), 5-yr., T., 10 to 20 ins. . . .	12.00	80.00

DOUGLAS FIR

(<i>Pseudotsuga taxifolia</i>)	Per 100	Per 1000
(2-0), 2-yr., S., 4 to 7 ins. . . .	4.25	27.50
(3-0), 3-yr., S., 5 to 12 ins. . . .	6.75	45.00
(3-2), 5-yr., T., 8 to 14 ins. . . .	12.00	80.00

CANADIAN HEMLOCK

(<i>Tsuga canadensis</i>)	Per 100	Per 1000
(2-1), 3-yr., T., 4 to 6 ins. . . .	10.50	70.00
(3-1), 4-yr., T., 5 to 12 ins. . . .	12.00	80.00

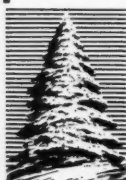
WHITE-FLOWERING DOGWOOD

(<i>Cornus florida</i>)	Per 100	Per 1000
(2-0), 2-yr., S., 12 to 18 ins. . . .	7.50	50.00
(3-0), 3-yr., S., 24 to 30 ins. . . .	12.00	75.00

Order Now
for
Spring Planting

We also have a large selection of Ornamentals, Shrubs, Shade Trees, Flowering Trees and Nut Trees. Special Discount to—Landscape Men, Licensed Dealers and Nurserymen.

Write for Free Catalog or Call: HOplins 5-5696



EVERGREENS • SHRUBS • NUT TREES • FRUIT TREES
• ORNAMENTAL AND DECIDUOUS TREES •

Pike's Peak Nurseries

Quality Nursery Stock For More Than 35 Years

801 WATER STREET

INDIANA 1, PA.

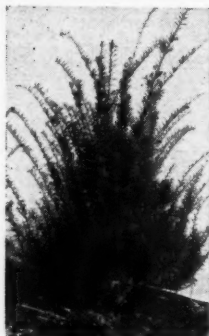


Photo shows 8-year-old
Taxus Spaeth

SUPERIOR TAXUS SPAETH

(*Taxus cuspidata* Spaeth)

A definitely superior form of upright Yew. Dark green winter and summer. Dense foliage right to the ground. The ideal Upright Taxus.

WE HAVE 2 AND 3-YEAR-OLD PLANTS OF THIS EXCEPTIONAL SPECIES. SEND FOR PRICES.

THE VAN HEININGEN NURSERIES
Deep River, Conn.

rained off and on for three days. Part of the time it was snow and sleet, so when I got back to the hole a few days later it was half full of water. I was getting a little sick of the job by that time. But that was only the beginning. After the weather got cold and the water drained away, we put on our chains. The chains wasn't big enough so we had to wire them together with baling hay wire. We put on the slings and brought the truck and hoist along side. One thing was bad; we couldn't get over the hole, but had to pull at an angle. The old hoist just couldn't take it. After a few pulls and jerks with the hoist our main gear started to strip, so it didn't hold anything. We had to give it up.

"We better get Williams Auto Wreckers with their hoist," I said, "they can lift a semi out of the ditch with that."

Emil thought it over a long time before he made any remarks. "Let's drive over and see how much he wants to lift the tree onto the trailer."

Williams is on the other side of town so we had to go past Red's Filling Station. "Let's see if Red will come out and lift it with his tow truck, he's got a hoist on it," Emil said.

"You are wasting your time, Emil, he can't lift anything bigger than a one year calf." But Emil hired him to come out for \$5.00 to see what he could do. He come out right away and backed up to the hole. "Give me my \$5.00 before I start," he said, "so in case I can't lift it you ain't going to back out of the deal with me." Emil didn't pay any attention to that remark.

Red hooked on to the sling and turned on the motor. It didn't move even half an inch. "It'll take a 5 ton job to lift it Emil," he said. "The only outfit in town that will lift it is Williams and that will cost you plenty."

"We'll have to cut the ball down, Chas.," Emil says, "cut about a foot off all around."

By that time it was frozen solid, so I had to chop and hack at it for the rest of the day. When it got to be quitting time I never went near the office, but drove out the back way. I didn't want no more argument with Emil about that tree.

Next morning when I got to work, Emil had Williams there with his big outfit. He lifted it out in about 15 minutes and set it on our trailer.

"What do I owe you?" Emil asked. "Twenty five dollars," Williams said, "and it will cost you another

EVEN PERISHABLE POSIES POSE NO PROBLEM

We think Greyhound Package Express is the safest and fastest way to ship. We ship to over 200 points in 6 states and have found that even the most perishable posies pose no problem when they're shipped by Greyhound Package Express."

Julius Dean
President

Rivermont
ORCHIDS



IT'S THERE IN HOURS

When getting it there in a hurry means business, you can count on Greyhound Package Express! Your packages go anywhere Greyhound goes, by dependable Greyhound buses on their regular runs. That means you get service seven days

...AND COSTS YOU LESS!

a week...24 hours a day...weekends and holidays! And you can send C.O.D., Collect, Prepaid—or open a charge account. For information, call any Greyhound bus station, or write Dept. 15D 140 South Dearborn St., Chicago 3, Ill.

J. E. MILLER NURSERIES

Canandaigua, N. Y.

Hard, Well-Rooted Stock DWARF FRUIT TREES

	Per 10	Per 100
Dwarf North Star Cherry, 9/16-in. cal.....	\$12.50	\$ 95.00
Dwarf Elberta Peach, 11/16-in. cal.....	13.50	125.00
Dwarf Sunhaven Peach and Halehaven Peach, 9/16-in. cal.	11.50	105.00
Dwarf Stanley Plum, 9/16-in. cal.....	11.50	105.00
Dwarf Apple—Budded on Malling VII and IX		
Red Delicious, Yellow Delicious,		
Northern Spy, Rhode Island Greening,		
Red Astrachan, Cortland, Wealthy, Webster		
2-yr., 7/16-in. cal., br.....	12.00	100.00
2-yr., 9/16-in. cal., br.....	13.50	120.00
Dwarf Burbank Plum, 9/16-in. cal.....	11.50	....
Moorpark Apricot, standard, 11/16-in. cal.....	10.50	90.00
Carpathian Walnut, 2-yr., 12 to 18 ins.....	9.50	70.00
Durham Everbearing Raspberry, 1-yr., No. 1,		
\$7.50 per 100; \$60.00 per 1000.		

ORNAMENTALS

Purple-Leaved Plum (Prunus Newport), 2-yr.,		
11/16-in. cal.	12.00	110.00
Almey Flowering Crab Apple, 2-yr., 11/16-in. cal.....	12.50	115.00
Moraine Locust, 5 to 6 ft.	30.00	....
Strathmore Flowering Crab Apple, 2-yr., 4 to 5 ft.	13.50	125.00
Nikko Blue Hydrangea, 2-yr., No. 1, heavy.....	8.50	....
Beartix Farrand Forsythia, 2 to 3 ft.....	6.50	60.00
Weigela vaniceki, 18 to 24 ins.....	5.50	....
2 to 3 ft.....	6.50	....
Pin Oak, 5 to 6 ft., 1-in. cal.....	15.00	....
French Lilacs, 18 to 24 ins. Varieties: Chas. Joly, Edith		
Cavell, Leon Gambetta, Pres. Grevy.....	6.50	....

ROSES

Again we offer them from the finest rose-growing areas:
CALIFORNIA — ARIZONA

All the leading patented and standard varieties.

Price Schedule of Standard Varieties

Grade	Each 10 to 240	Each 250 to 990	Each 1000 to 2490	Each 2500 to 5000	Each Over 5000
No. 1	\$0.60	\$0.58	\$0.56	\$0.55	\$0.54
No. 1½ .....	.50	.48	.46	.45	.44

NO CHARGE FOR PACKING—F.O.B. MOORESTOWN, N. J.
FREE INDIVIDUAL LABELS

Colored Pictures—8x10 ins., 5c each.

Potted roses also available April 1.

MOORESTOWN GARDENS, Inc.

55 E. OAK AVE.

MOORESTOWN (Burlington County), N. J.

(Exit 4 on New Jersey Turnpike)

Phone: BElmont 5-1020

Complete List Upon Request

JOS. A. HREN NURSERIES

BLACK PINE

4 to 5-yr., heavy liners of our own compact strain.
8 to 10 ins., T., \$35.00 per 100
10 to 12 ins., T., \$50.00 per 100

LANDSCAPE-SIZE MATERIALS — Catalog

East Hampton, L. I., N. Y.

Phone: EA 4-0640

twenty five if you want me to come and lift it off the trailer."

Emil could see his profits on moving the tree diminish, but he was stuck. He didn't dare get into an argument with Williams if he wanted to get it unloaded. So he said, "I'll pay you in a day or so when you unload it."

"We might as well go down to Morses and start digging where they want to plant," Emil said. You go ahead and start and I will be there after I stop at the bank."

There wasn't anybody at home at Morses, so I forked off the hay we had spread and started picking away to make a hole. I worked until noon. Emil had not showed up or neither had Mrs. Morse. Just as I was about to drive away Mrs. Morse came home."

She said, "Chas. what on earth are you digging that hole for?"

"Why its for that maple you ordered last summer, we couldn't dig it until now," I said.

"You can just shovel the dirt back in the hole. I told Emil I would let him know. I have decided against it. I am going to put a patio there next summer and besides Mr. Morse didn't approve of spending that much money."

"You mean you ain't going to take it after we spent three days and all that expense?" I said.

"Emil should have called me before he dug it, I am sorry," and she went back into the house.

When I got back to the office, before I could say anything Emil said, "Have you got the hole dug?"

"Mrs. Morse ain't going to take it," I said. "She claims she was going to let you know. She don't want it and I got to go back and shovel the dirt back into the hole. So far we are doing real good, we got over three days work and \$30.00 invested and no sale and \$25.00 to get it off the trailer."

The next remark by Emil I will have to leave out of the story for several reasons. The younger members probably never have heard some of the words that Emil used and anyway the paper couldn't print it. So I will put in the usual *****!

Several days went by and nothing was said about the maple sitting out in the nursery on the trailer. I thought best not to bring it up. We been all thru this before, we never charge enough for big trees and this deal was a complete dud.

A couple of weeks later I was driving to Lake Park on the new road when I spotted a big house being built about ½ mile out of town by

We just acquired a sizable block of nursery stock from a nursery that recently went out of business due to the death of its owner. Following are a few of the items we can now offer which we were previously sold very close on.

SPECIALS

PEAR, 2-yr.

Varieties

Bartlett

Kieffer

Each Per Each Per
10 Lots 100 Lots

7/16 to 9/16-in. cal.	\$0.55	\$0.50
9/16 to 11/16-in. cal. ....	.65	.60
11/16 to 1-in. cal. ....	.75	.70

DAMSON PLUM, 2-yr., br.

9/16 to 11/16-in. cal. ....	.55	.50
11/16 to 1-in. cal. ....	.65	.60
1-in. cal. and up ....	.75	.70

FLOWERING CRAB APPLE, 2-yr., br.

Varieties

Eleyi

Hopa

Red Silver

7/16 to 9/16-in. cal. ....	.65	.60
9/16 to 11/16-in. cal. ....	.75	.70
11/16-in. cal. and up	1.00	.90

FLOWERING PEACH, 2-yr., br.

Varieties

Double Red

Double Pink

7/16 to 9/16-in. cal. ....	.40	.35
9/16 to 11/16-in. cal. ....	.50	.45
11/16-in. cal. and up ....	.70	.65

SPECIAL QUOTATIONS ON LARGER QUANTITIES COLD STORAGE—JUST COMPLETED!

Modern refrigerated storage to hold plants completely dormant to be shipped when desired at no additional charge to you.

60-PAGE DESCRIPTIVE WHOLESALE CATALOG

FOREST NURSERY COMPANY, INC.

McMinnville, Tenn.

Day Phones: 225-4252-2843

John T. Boyd
General Manager
Night Phone:
MOhawk 8-8052

J. R. Boyd, President
Hiram Stubblefield
Superintendent
Night Phone:
MOhawk 8-8053

Lowell Barnes
Asst. Superintendent
Night Phone:
MOhawk 8-8370

HARDY AZALEAS

Can be planted now.

All azaleas are 2 to 3-year transplants and carry a small ball of soil.

AZALEA AMOENA. Very hardy evergreen foliage which turns rich bronze in winter. Semidouble, purple flowers. 4 to 6 ins. \$15.00 per 100

AZALEA JAPONICA. Very hardy. Wide range of color. Red, pink, yellow, etc. Deciduous. 6 to 8 ins., T. \$25.00 per 100

AZALEA KAEMPFERI. Seedlings (Japanese seed). Tall-growing, large flowers in various shades of pink and red. Flowers profusely; blooms when evergreen types fall. Deciduous. 4 to 6 ins., T. \$15.00 per 100

AZALEA KURUME. Very hardy. Will stand 19 degrees below zero. Gives a great variety of colors and types, from choice whites to orchids, deepest pinks and reds. Good evergreen foliage. 2-yr., 4 to 8 ins., T. \$15.00 per 100

AZALEA POUKHANENSIS. Large orchid flowers which rarely winterkill. Deciduous. 4 to 6 ins., T. \$15.00 per 100

AZALEA SCHLIPPENBACHI. Considered by many the best azalea of all. Very large pink flowers; very large leaves which turn pink in fall. Deciduous. 4 to 6 ins., T., heavy .. \$25.00 per 100

AZALEA WHITE. Evergreen. Large flowers with a pink blush in throat, similar to but much harder than Azalea Indica Alba. 4 to 8 ins., T. \$15.00 per 100

AZALEA HINODEGIRI. 2-yr., T. 3 to 6 ins., br. Brilliant red, \$15.00 per 100. Each plant carries a nice ball of soil.

PIERIS JAPONICA

(ANDROMEDA)

The popularity of this plant is ever increasing, creating a demand that only few nurseries can supply. The plant sells on sight and its extensive use at flower shows increases the desire of plant lovers for it. It transplants easily, will grow in sun or shade and is attractive at all seasons.

Starting first with its lovely Lilly-of-the-Valley-like flowers, often in bloom with icicles on them, it sometimes remains in bloom for a month. The new red foliage appears which turns light, then dark green. The prominent racemes of light green flower buds form in the fall and are attractive all through the winter, useful in flower arrangements, and can be readily forced.

The plants can be moved into beds now and these plants often make three growths a year—so that you soon have a beautiful salable Pieris. They are incomparable for an evergreen planting. Our grading is very liberal. Dug with small balls of earth.

Per 100
4 to 6 ins., T. \$15.00
6 to 8 ins., T. \$20.00

Send for List of Unusual Plants

ALANWOLD NURSERY

Neshaminy, Bucks Co., Pa.

ROSES

Central Pennsylvania Grown
2-yr.-old, field-grown plants.
Hybrid Teas—Floribundas—Climbers

EVERGREENS

Landscape Material
Twice transplanted, regularly sheared.
Young, salable evergreens for cash-and-carry trade of garden shops, roadside markets and nurseries.

Write for wholesale price list.

SHADE'S NURSERY

624 Colonial Club Dr.

Harrisburg, Pa.

Phone: Harrisburg, KI 5-5417

5 miles east of Harrisburg on U. S. Rt. 22, turn north at Inn 22, nursery 1 mile north of U. S. Rt. 22.

Turtle Creek. That's when I got an idea. I wheeled in and walked around until I found a man laying up a stone wall in the back. It turned out to be Dr. Wyman, a dentist in Lake Park. He had a turnaround in front of the house, just the place for a big maple. He was thinking of the same thing, he said, so it didn't take long to make a deal.

I was telling him about Emil's lower plate, so I told him we would put in the maple for \$250.00 and a new lower plate for Emil.

By the time we hired an air hammer and hauled the tree over and planted it we made out pretty good. Now Emil says he is well pleased with his new plate. In fact we sold the Doctor a big landscape job besides.

As Emil says, there is good money in big trees if you know what you're doing.

NEMATODE CONFERENCE

The first national conference on nematodes and the plant diseases they cause ever sponsored by an industry group was held March 14 and 15 at Washington, D. C. The conference, which attracted about 40 nematode scientists, government representatives, chemical manufacturers and industry leaders, was chaired by Dr. Richard P. White, executive vice-president of the American Association of Nurserymen.

Opening the program, Dr. A. L. Taylor, head, nematology section, crops research branch, United States Department of Agriculture, described "The Scope of Nematodes as Parasites of Ornamental Plants." Dr. Taylor concluded that the nematode problem is so widespread that everyone who grows crops in the United States is affected by it to some degree.

"Controlling Nematodes Affecting Ornamental Plants" was the topic of Dr. D. J. Raski's paper. Dr. Raski, head of the department of nematology, University of California, Davis, concluded that additional research in the whole field of plant pathology as it relates to nematodes is urgently needed.

Trade Must Be Alerted

Dr. Raski was followed on the program by one of the foremost nematologists in the United States, Dr. Gerald Thorne, department of plant pathology, University of Wisconsin. Dr. Thorne, with the use of an excellent series of slides, described various kinds of nematode infestations, their detection and control.

According to Dr. Thorne, the tools

SPRUCE

Abies nordmanniana Each
Outstanding dark evergreen.
Silvery-edged evergreen.
Grafts from 2 1/4-in. pots \$1.25

Picea pungens glauca Hoopsi Sold Out

Picea pungens glauca kosteriana
2 1/2-in. pots 1.00

Picea pungens glauca moerheimi
2 1/2-in. pots 1.00

Picea orientalis
A magnificent evergreen.
Glossy green needles.
2 1/4-in. pots 1.25

Picea omorika (Serbian Spruce)
B. R. A beautiful ornamental.
10 to 15 ins., heavy 1.25
18 to 24 ins., heavy 2.50

Minimum order \$25.00. Packing at cost. F.O.B. New Jersey. Ask for complete price list.

HOLLAND NURSERY PRODUCTS

P. O. Box 339

Madison Square Station
New York 10, N. Y.

CANADIAN HEMLOCK and BALSAM FIR

Northern-Grown

Per 100 Per 1000
3 to 6 ins., S. \$ 3.00 \$ 17.50
6 to 9 ins., S. 5.00 30.00
9 to 12 ins., S. 9.00 70.00
12 to 18 ins., S. 12.50 100.00
18 to 24 ins., S. 30.00

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.

WILLIAM CROSBY HORSFORD
Charlotte, Vt.

ANDROMEDAS

Field-Grown

Each Each
Per 100 Per 500
4-yr., TT. \$0.55 \$0.50

Liners in Bed

2-yr., T.25 .20
3-yr., T.40 .35

CORNUS KOUSA

4-yr., TT.60 .55

SOWAMS NURSERY

82 Sowams Rd. Barrington, R. I.

BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

NORTHERN-COLLECTED

Hemlocks, Ferns, Wild Flowers
Trees, Shrubs

ISAAC LANGLEY WILLIAMS
EXETER, N. H.

SAVE DOLLARS... HOURS Every Day

with the Completely NEW Insta-Hitch System

Switch Implements in Seconds Without Leaving the Tractor Seat

For the first time the back-breaking, time-consuming chore of changing implements has been reduced to a "flick of a lever." Now you can switch three-point or tongued implements swiftly and safely . . . saving valuable time and labor cost.

PAYS FOR ITSELF — time and labor savings will quickly pay for the initial low cost of an Insta-Hitch system.

SAFER — eliminates costly accidents, smashed fingers and toes . . . no more grappling with heavy bars, jacks or bolts.

VERSATILE — Insta-Hitch is adaptable to virtually any implement, including power-take-off equipment. Make safer, faster hook-ups.

Write for Name of Nearest Distributor or Dealer

INSTA-HITCH
PATENTS PENDING

DIVISION
Weather-Seal, Inc.

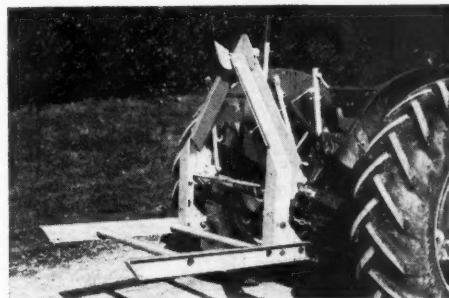
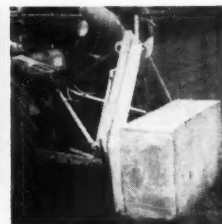
Barberton, Ohio



Insta-Hitch system features a triangular tractor unit which permanently bolts onto the three hitching points of the tractor. Matching couplings attach to the implements.



Just back up until the hook on the tractor coupling engages the matching unit of the implement. Raise the hydraulic arms, push the locking lever and drive away.



Insta-Lift Fork Attachment

A low-cost carry-all that transports loads to the weight capacity of the tractor hydraulic system. Perfect for pallet loading of nursery stock.

LINING-OUT STOCK

Well Grown—Root Pruned and Topped Last Spring—Good Grades

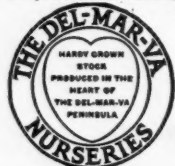
Azaleas
2-yr., bedseach, 15c
3-yr., bedseach, 20c

Varieties as follows: Beacon, 2 and 3-yr., Claret, 2 and 3-yr., Ethelwyn, 2-yr., Fashion, 2 and 3-yr., Flame, 2-yr., Gaiety, 2 and 3-yr., Glacier, 2 and 3-yr., Greeting, 2 and 3-yr., Herbert, 2 and 3-yr., Hinodegiri, 2-yr., Isabel, 2-yr., Kaempferi, 2 and 3-yr., Melanie, 2 and 3-yr., Remembrance, 2-yr., Rose Bud, 2-yr., Treasure, 2-yr., Macrantha, 2-yr., Sherwood Pink, 2 and 3-yr. Snow, 2 and 3-yr., Souvenir, 2 and 3-yr., Swan Song, 3-yr., Winner, 2 and 3-yr.

Abies balsamea
3-yr., T.20c
Ilex crenata convexa
3-yr.17½c
2-yr.15c
Ilex crenata helleri
3-yr.17½c
2-yr.15c
Ilex crenata rotundifolia
3-yr.17½c
2-yr.15c
Juniper, Armstrong, dwarf
3-yr.25c
2-yr.17½c
Juniper, Hetz
3-yr.25c
2-yr.17½c
Laurocerasus schipkaensis
3-yr.20c
2-yr.17½c
Osmanthus aquifolium
2-yr.15c
Osmanthus fortunei
2-yr.15c
Taxus baccata repandens
2-yr.27½c

Taxus cuspidata
3-yr.22½c
2-yr.17½c
Taxus capitata
3-yr., S. T.20c
Taxus, Lynch, No. 1, dwarf spreading
2-yr.30c
Taxus, semiglobe
2-yr.30c
Taxus browni
3-yr.22½c
2-yr.17½c
Taxus, Hatfield, upright
2-yr.17½c
Taxus hicksi
3-yr.22½c
2-yr.17½c
Taxus, Vermeulen
2-yr.17½c
Thuja Occidentalis globosa
3-yr.15c
Thuja Occidentalis pyramidalis
3-yr.15c
Tsuga canadensis
2-yr.25c

All stock is listed by the number of years that it has been growing in outside beds. Terms of sale: All prices F.O.B. Lincoln, Del. All orders must be accompanied by cash or 25% deposit and balance C.O.D. or satisfactory credit references.



Write for Our List of Finished Stock

DEL-MAR-VA NURSERIES

Phone: GArden 2-4445 Lincoln, Del.
(Our 34th Year!)

ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY, INC.

Box 196, Huntington Station, N. Y.

QUALITY NURSERY STOCK IN LANDSCAPE SIZES

SHADE TREES: Maple — Norway, Scarlet and Sugar, Niobe Weeping Willow and Pin Oak. Sizes on most shade trees are in the 2 to 5-in. cal. size.

EVERGREENS: Austrian Pine, up to 6 ft. Hetz Juniper, 18 to 24 ins. and 2 to 2½ ft.

Write for Price List.

BAKER'S NURSERIES

Hoosick Falls, N. Y.
Phone: 861

QUALITY STOCK GROWN BY US

Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).

Seedlings and transplants.

DANEGGER'S HI-WAY NURSERY, INC.

P. O. Box 336 MILFORD, DEL.

CANADIAN HEMLOCK BALSAM FIR

	Per 100	Per 1000
2 to 4 ins., S.	\$ 2.00	\$ 10.00
3 to 6 ins., S.	3.00	17.00
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.00	100.00

Well-rooted, carefully collected seedlings. Puddled and packed in sphagnum moss. Cash with order.

R. M. COLE

Box 37 Charlotte, Vt.

B & B EVERGREENS

Hemlock Pfitzer Juniper Globe Arborvitae

Nursery located north end of Broad Brook on Connecticut Highway No. 140.

Ask for Wholesale Price List

E. NORMAND MYERS

Nurseryman
Broad Brook, Conn.

DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Outstanding assortment.

Write for Wholesale Price List.

LOVETT'S NURSERY, INC.

LITTLE SILVER, N. J.

needed to deal with the nematode problem are already available. The real problem is that the nursery industry is, for the most part, unaware of the seriousness of the nematode situation and has, therefore, not begun large-scale field control programs to deal with it.

Other papers included on the program were "Regulatory Aspects of Plant Nematology," presented by Frank Soraci, director, division of plant industry, New Jersey department of agriculture; "Plant Pest Control Division's Place in Nematode Surveys and Control," by J. F. Spears, nematologist, plant pest control division, U. S. D. A.; "International Quarantine Aspects of the Nematode Problem," by E. J. Reagan, director, plant quarantine division, U. S. D. A.; "Nematode Problems Requiring Research," by Harold S. Crawford, chairman, A. A. N. research committee, Willis Nursery Co., Ottawa, Kan., and "Nematode Quarantines and Controls," by William Flemer, Jr., chairman, A. A. N. quarantine committee, Princeton Nurseries, Princeton, N. J.

Each day of the conference was highlighted by a luncheon speaker. Valteau C. Curtis, Curtis Nurseries, Inc., Callicoon, N. Y., president of the American Association of Nurserymen, addressed the group at the first day's luncheon. He praised the U. S. D. A. regulatory and research officials, the national and regional plant boards, the state regulatory officials and the nematode technicians for their cooperation with the nursery industry in studying the nematode problem.

The A. A. N. president also expressed pride in his own association for sponsoring the nematode conference and indicated that the A. A. N. would be glad to sponsor a second conference on this subject a year hence, if it is thought advisable. Assistant Secretary of Agriculture Ervin L. Peterson was guest speaker at the second day's luncheon.

At the conclusion of the conference, it was announced that a digest of the talks and discussions on nematodes will shortly be available to all interested persons from the A. A. N. A complete transcript of the conference will subsequently be made available.

H. L. THOMPSON and Nial Alfson recently opened the Thrifty Gardens Nursery in the Orangefair shopping center, Fullerton, Calif.

WELDON NURSERY is being started at Bryn Mawr, Pa., by Edward Starr III.

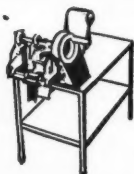
"SLIP-ON" PLASTIC LABELS

Patent No. 2,642,684

NEWEST AND MOST PRACTICAL OF ALL PLANT LABELS!

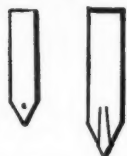
SO NEW! SO PRACTICAL!

16 times stronger in sub-zero temperatures



IMPRINTING MACHINES

Imprints permanently 9000 plastic labels per hour. Automatic, compact, rugged design. Terms available.



TY-ON AND STICK-IN PLASTIC LABELS

Durable, waterproof. 6 fadeproof colors. Imprinting additional.

REMOVABLE PLASTIC CARD

PERMANENT PLOT MARKERS

Weather resistant 3x 5-in. plastic card. Inserts in 24-in. aluminum stake. Interchangeable. 50c ea.

Patented locking device assures you a permanent, easily attached, adjustable label. Minimizes girdling the canes of either soft or hard wood plants. Guards against loss of labels. Absolutely waterproof. Will not wilt in hot weather.

Plain or varieties imprinted permanently

Add \$2.00 to imprinted prices if imprinting is desired on both sides. Trade-marks billed at cost. Photos or black-and-white drawings must accompany trade-mark orders. Parcel-post shipment up to 20 lbs. Over 20 lbs., least expensive way possible—unless otherwise specified. All shipments F.O.B. DAYTONA BEACH, FLA.

The letter "C" in the price list below denotes "V" notch.



YOUR NAME HERE

PRICE

Available in 6 fadeproof colors . . . RED, GREEN, ORANGE, YELLOW, BLUE, WHITE.

No.	Size	Per 1000	Imprinted Per 1000	Weight
No. 25	1/2x5 ins.)			
1000 to 4000		\$5.50	\$7.00	
5000 to 9000		4.75	6.25	1 1/4 LBS.
10,000 to 49,000		4.00	5.50	
50,000 to 99,000		3.25	4.75	PER 1000
100,000 or more		2.50	4.00	
No. 87 or 87C	5/8x7 ins.)			
1000 to 4000		7.50	9.00	
5000 to 9000		6.50	8.00	2 1/4 LBS.
10,000 to 49,000		5.50	7.00	
50,000 to 99,000		4.75	6.25	PER 1000
100,000 or more		4.00	5.50	
No. 47 or 47C	3/4x7 ins.)			
1000 to 4000		8.50	10.00	
5000 to 9000		7.50	8.75	3 LBS.
10,000 to 49,000		7.00	7.75	
50,000 to 99,000		6.25	7.00	PER 1000
100,000 or more		5.50	6.25	

Mail Coupon Today!

P. O. Box 350
Daytona Beach, Fla.

ECONOMY LABEL SALES CO. INC.

ENCLOSED FIND \$.....
FOR WHICH YOU MAY SHIP THE FOLLOW-
ING ITEMS CHECKED BELOW BYEXPRESS;
.....PARCEL POST;MOTOR FREIGHT;BEST WAY.

YOUR NAME (print)

CITY..... ZONE..... STATE.....

STREET NO..... R.F.D..... BOX.....

SHIPPING POINT..... COUNTY.....

(if different from post office)

PLASTIC "SLIP-ON" LABELS

SIZE	QUANTITY	IMPRINT NAME & ADDRESS	IMPRINT VARIETIES	IMPRINT TRADE-MARK	PRICE
NO. 25					
NO. 87					
NO. 87C					
NO. 47					
NO. 47C					

IMPRINT MY "SLIP-ON" LABELS AS FOLLOWS:

*A VARIETY LIST IS ENCLOSED.....(yes or no) Made in U. S. A.

Single Red
HIBISCUS

98¢

GARDEN MARKERS

All-aluminum tube stake 3 ft. long. 5 1/2 x 7 1/2-in. plastic insert card plus 2x7-in. interchangeable plastic pricing card.

\$1.04 each

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

THE OAKS

Nurserymen have often been accused of putting too much emphasis on producing the quick-growing and easily transplanted shade trees and not enough of the tough, long-lived, slow-growing types. Conversely, the oaks themselves have come into considerable criticism as a useful garden subject because so many of them grow to such large proportions that they are not suited to the ranch house and modern home. Nevertheless, the oaks are fine trees. I live in white oak country and have grown a number of species of oaks, and I shall comment on some of my experiences with them.

The white oak is a long-lived, large, spreading tree that is very difficult to transplant. It is almost wisest to grow the tree by sowing the acorns in situ. The next best thing is to plant the acorns in containers and sell the plants as young seedling trees. I grew some landscape trees and had a measure of success only; the trees had a few deep-reaching coarse roots, almost as bad as those of a pecan tree. I sold the young trees bare root and others a little larger as B&B stock, but I have stopped trying to grow white oaks.

The chestnut oak grows not unlike the white oak in character, with a broad, spreading head. The shiny green foliage is attractive, but it is moderately difficult to transplant the tree. At one time I grew a good block of chestnut oaks, but found them almost impossible to sell. The only time I sold any, was when I specified the tree list. However, because of the chestnut oak's considerable beauty it should be planted more.

English Oak

Most oaks grow big, particularly the native ones. The English oak does not grow quite so large as most American forms, but it does not offer great prospect as a desirable smaller tree, judging from my experience. While its growth seemed slow, the foliage was not only uninteresting but was usually covered with unsightly mildew.

The pin oak is probably the commonest species grown in nurseries. It is a fine tree that is familiar to most and requires no comment.

The red oak, another giant tree, grows rapidly. Last year when I took measurements of the spring growth of certain trees, I was startled to find a 4-foot stem growth on red oaks, which equaled the growth of silver maples. The fall color of this oak is attractive and brilliant. The tree is a little difficult to transplant, however, so that it responds slowly after moving, giving the layman the impression that it is a slow-growing tree.

The closely related scarlet oak behaves much the same as the red oak and I should add only that the true form is hard to find in the nursery trade.

Next to the pin oak the willow oak is the easiest to grow and transplant. With its delicate, narrow leaves it makes a fine tree. The tree

is easy to transplant so that success is not difficult even with collected trees. If horticulturists could produce a miniature oak, it should have foliage like the willow oak. There are some small native oaks, but they are scrubby bushes or have coarse foliage.

Native Oaks Neglected

Some of our native oaks are not grown in the trade at all. On occasion I have dug small black oaks from the woods and grown them into well-shaped and trained trees which were later successfully moved to landscape jobs.

My nursery is located at the northern limit of the range of the evergreen oaks, but I have tried to grow two of them. The live oak is difficult to get started as a young tree, but after it has attained a little growth it will generally survive. Some years ago the Crown Cork & Seal Corp. gave me a number of cork oaks, both the regular form and those with edible acorns. Although these trees survived for half a dozen years, they were not successful. I understand there are several attractive evergreen oaks grown in Cali-

JUST A FEW OF OUR SPECIALTIES

	Each Per 10	Each Per 20
<i>Thuja occidentalis woodwardi</i>		
12 to 15 ins., B&B	\$1.75	\$1.50
15 to 18 ins., B&B	2.00	1.75
<i>Juniperus hetzi glauca</i>		
15 to 18 ins., B&B	2.75	2.50
18 to 24 ins., B&B	3.50	3.25
<i>Pyracantha coccinea lalandi</i>		
15 to 18 ins., B&B	2.00	1.75
18 to 24 ins., B&B	3.00	2.75
<i>Myrica pensylvanica</i>		
15 to 18 ins., B&B	2.25	2.00
18 to 24 ins., B&B	3.50	3.25
<i>Acer tataricum</i> , 5 to 6 ft., B&B	4.50	4.25
<i>Acer ginnala</i> , 6 to 8 ft., B&B	6.50	6.25
<i>Crataegus phaenopyrum</i> , 7 to 8 ft., B&B	9.50	9.00

Write for Wholesale Price List

ARTHUR D. SLAVIN, Nurseryman

Phone: Jordan 4226

Elbridge, N. Y.

On N. Y. S. Rt. 5 — 15 miles West of Syracuse

"A friendly, efficient sales service"

E. D. ROBINSON SALES AGENCY

38 S. Elm St. P. O. Box 247
Wallingford, Conn.

Representing Wholesale Growers
of Fine Nursery Stock.

SERVING THE NURSERY TRADE FOR MORE
THAN A QUARTER OF A CENTURY.

See our large ad on pages 32 and 33
of the January 1 issue.

HEMLOCK

Rhododendron • Kalmia • Azalea

CURTIS NURSERIES
CALLICOON, N. Y.

TAXUS

CAPITATA, to 42 ins.
SPREADING, to 24 ins.

Rooted Cuttings and Liners

Flowering Trees

VANDEBROOK

NURSERIES, INC.
Manchester, Conn.

Quality Merchandise at Reasonable Prices

A General Line of
FRUIT and ORNAMENTAL
TREES and PLANTS

BUNTINGS' NURSERIES, Inc.
BOX 3 SELBYVILLE, DEL.

HERE'S THE BEST WAY TO CONTROL MITES ON ORNAMENTALS!



GENITE®

AMAZING "SURE-SHOT" MITICIDE

Yes, throughout the country, more and more nurserymen are discovering that Allied Chemical's Genite is the *best* way—bar none!—to control mites on ornamentals. Genite miticide is a relatively new product to the nursery field, but it has long been used to control mites on fruit and shade trees. Thousands of commercial fruit growers swear by Genite and will accept no substitutes. Municipal officials approve and use Genite to control mites on shade trees. Now, you too can get more effective, longer-lasting mite control by applying this "wonder miticide" to ornamentals.

Amazingly effective!

Genite miticide kills *all* stages of mites—including their eggs. Controls Clover (Bryobia) Mite, Southern Red Mite, Red Spider, Spruce and other mites. You need fewer sprays . . . cut down mite populations so effectively control results will often continue into the following year.

Easy to use, economical!

Genite miticide comes in both 50% emulsifiable and 50% wettable powder forms. Both are easy to apply and are widely compatible with other

spray materials. Economical, too! Only 1 to 1½ pints of emulsifiable or 1 to 1½ pounds of wettable powder are needed for each hundred gallons of water.

Safe to use!

Genite miticide kills mites and mites *only*! It is virtually non-toxic to useful insects when used as directed. Can be sprayed on nursery stock *anytime* mites are a problem.

Prove it yourself!

This season, grow healthier, better looking, *higher priced* stock. Stop mite damage with Genite miticide. Write today for free folder on Genite for nurseries.

Sprays stick better, stay better with PLYAC* spreader-sticker

Plyac, Allied Chemical's revolutionary new polyethylene spreader-sticker makes all sprays stick better . . . last longer! With Plyac, you can stretch the time between sprays . . . do less re-spraying . . . increase the effectiveness of all your sprays—even in rainy weather when other sprays wash off easily. Only 2 to 4 ounces usually needed for each 100 gallons of spray mixture. For extra performance from all your sprays, add Plyac!

*Trademark of Allied Chemical Corporation

Allied
Chemical

GENERAL CHEMICAL DIVISION

40 Rector Street, New York 6, N. Y.

DOGWOODS

PINK DOGWOOD

4 to 8 ft., heavy plants

For Street or Park Planting

From 7 to 12 ft. high, 2 to 3-in. cal., branching at 4 ft., 5 ft. and 6 ft. Perfect trees, well headed, appropriate for street or park planting.

OTHER SPECIALTIES INCLUDE

ILEX PIERIS HEMLOCK ALBIZZIA

PRUNUS PINUS BETULA TAXUS

ABIES, in variety

Write for catalog.

IMPERIAL NURSERIES OF LONG ISLAND

Miller Place Rd. off Route 25A

Phone: Port Jefferson 8-0955

Miller Place, L. I., N. Y.

(4 miles past traffic circle—turn right at blinker.)

fornia, some of them small-size trees, but I have had no experience with them.

Oaks hybridize readily, but do not propagate so well vegetatively. Because of the time involved in developing new varieties, not much has been done in this respect; yet, there are possibilities among both native and exotic oak species for new and suitable types. I suppose the qualities to be looked for in an oak are attractive foliage, small to medium height and nominal ease of transplanting.

SALES-CASTING JOB

Credit for the critical forecasting job done by the grower of nursery stock in starting trees and shrubs for sales in later years was acknowledged by William Clark, financial editor, in the business section of the Chicago Tribune in the Sunday issue carrying report of the opening of the Chicago flower and garden show. He wrote:

"And if you think you have business forecasting troubles, consider the plight of Chicagoland nurserymen," suggests a spokesman for the Ornamental Growers' Association of Illinois apropos of the opening of the Chicago world flower and garden show.

"The chap budgeting sales for a quarter of a year ahead has it easy," our correspondent goes on. "The lapse of time between the 'birth' of a tree or shrub and the day it reaches salable size for landscaping may be anything from three or four to 18 years.

"For example, the particular 6-foot evergreen you buy this spring is available only because a nurseryman decided correctly 18 years ago that you would want it now," the letter reads in part. "When you consider that the average nursery grows hundreds of different plant varieties, chosen from among thousands, you begin to appreciate the formidable kind of sales forecasting job your nurseryman does every year.

"What's more, he does it without electronic computers!"

WHOLESALE GROWERS

B&B

Field Liners

Potted Liners

Transplants

Seedlings

100 acres of evergreens for sale

HEASLEY'S NURSERIES

247 Freeport Rd.

Butler, Pa.

20,000 TAXUS

Just right for garden center and the nursery trade.

	Each	Each
	Per 100	Per 1000
T. wardi, 12 to 16 ins.	\$2.25	\$2.00
T. hatfieldi, 12 to 16 ins.	2.25	2.00
T. browni, 12 to 16 ins.	2.25	2.00
T. capitata, 12 to 16 ins.	2.25	2.00
T. hicksii, 12 to 16 ins.	2.25	2.00
T. henryi, 12 to 16 ins.	2.25	2.00

(The originator's true strain.)

Your visit to the nursery would be most welcome. New Jersey Turnpike Exit No. 9 to New Brunswick and Easton Ave.

BELL ACRE NURSERIES

P. O. Box 597, Easton Ave.

South Bound Brook, N. J.

EVERGREEN

Seedlings and Transplants

Growers of Spruce, Fir, Hemlock, Juniper, Mugho Pine, etc.

Free Wholesale Price List

SUNCREST NURSERIES

Box 305-F

Homer City, Pa.

FIR
PINE
SPRUCE

SEEDLINGS

MILLIONS

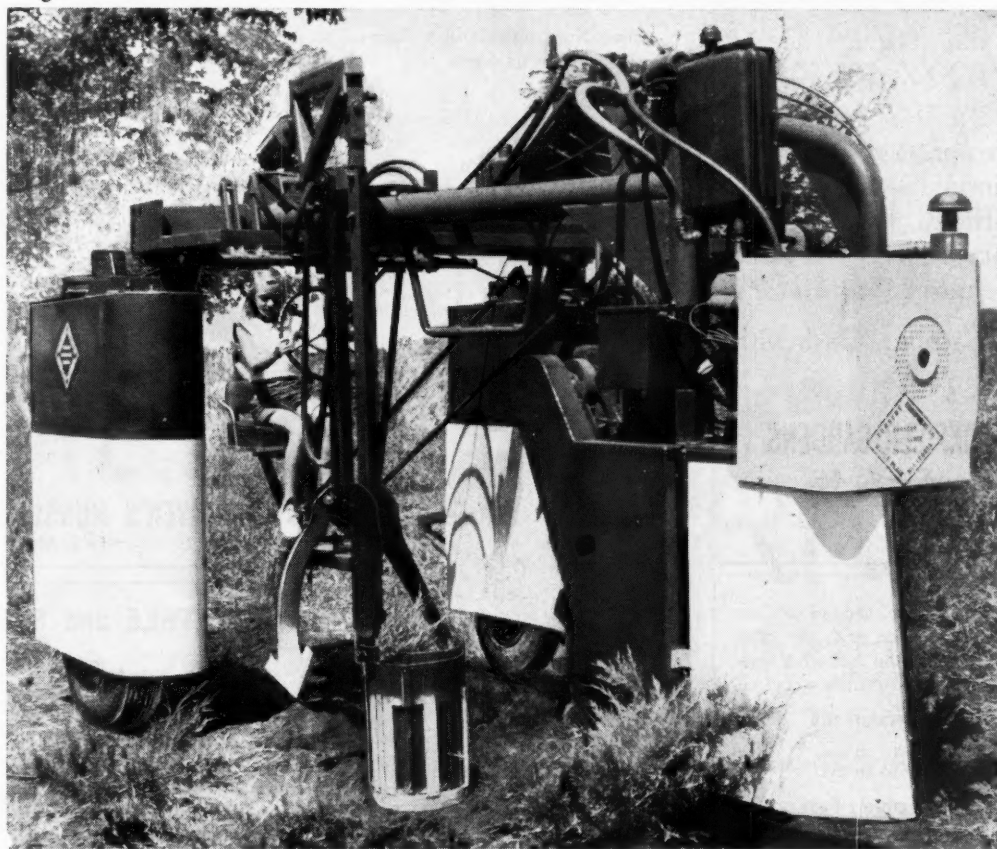
WHOLESALE ONLY

TRIM TREE NURSERY

R D 1 INDIANA PA

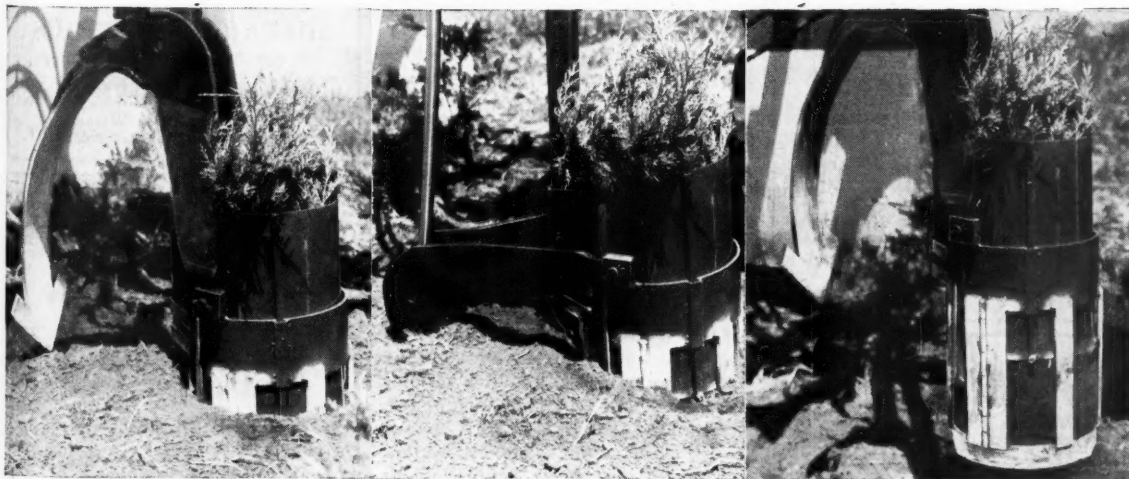
NURSERY HI-CLEARANCE TRACTOR

for EVERGREEN and CITRUS TREE DIGGING



Tractor No. 200 with Baller and Undercutter

THE PERFECT COMBINATION



Center bucket — push in to desired depth.

Cuts all taproots under digging bucket.

Lift bucket with perfect ball—ready for burlap or container.

THE ONLY BALLING MACHINE-UNDERCUTTER COMBINATION—WITH U. S. PATENTS.

NURSERY EQUIPMENT CO., Inc.

Maple Plain, Minn.

Phone Collect: GRenwood 9-4631 ... JIM QUADY

All Tractors Sold on Free No-Obligation Field Demonstration!

TAXUS LINERS

7-yr.-old, strong, heavy plants, XXX, \$85.00 per 100.

T. browni, 18 to 24 ins.

T. henryi, 18 to 24 ins.

T. hatfieldi, 18 to 24 ins.

T. capitata, 18 to 24 ins.
(Japanese Seed)

Free packing. Cash with order, please.

BROOKFIELD GARDENS

U. S. Rt. 46
Delaware, N. J.

We need additional ground to clear for field expansion and can offer quantity buyers the following top-grade materials at attractive prices.

Thuja pyramidalis

870 24 to 30 ins.
1201 30 to 36 ins.

Azalea kaempferi Fedora

794 10 to 12 ins.
974 12 to 15 ins.
211 15 to 18 ins.
242 18 to 24 ins.

Ilex convexa bullata

2907 8 to 10 ins.
440 10 to 12 ins.
1183 12 to 15 ins.

Thuja occidentalis elegantissima

712 24 to 30 ins.
313 30 to 36 ins.

RICKERT NURSERIES

Morrisville, Pa.
Phone: CYpress 5-4166

VOSTERS

NURSERIES AND
GREENHOUSES, INC.

*Tropical Foliage
Plants for
Interior Decor*

Main Office,
Secane, Pa.
(Suburban Philadelphia)
Cutler, Florida
Perrine, Florida
Wilmington, Delaware



COVER ILLUSTRATION

Abies Nordmanniana x Abies Cephalonica

The Nordmann fir is native to the Caucasus and Asia Minor and was brought into cultivation about 1850. This species is much prized and widely used where good-size evergreens are wanted. It is one of the neatest-appearing conifers available and is attractive because of its well-shaped head of dark green, lustrous needles, which are further enhanced by white bands beneath.

Abies cephalonica, the Greek fir, comes to us from Greece and has been cultivated since early in the



Foliage of *Abies nordmanniana* x *Abies cephalonica*.

19th century. The Greek fir is a handsome tree and distinctive because of spreading, sharply pointed needles, which are extremely stiff compared to those of most members of the genus, being one of the exceptions proving the rule that the needles of the firs are softer and "friendlier" than those of the spruces.

Hybrid Excels Parents

The hybrid, *A. Nordmanniana* x *A. cephalonica*, is a stately tree, having good features from both parent species. Somewhat looser in branch formation than *A. nordmanniana*, the general aspect is more graceful and the foliage not so rigid or widely spread as that on *A. cephalonica*. The wider-spreading, slightly upward-sweeping branches add to the appearance of the hybrid in that its contour is less formally symmetric, these characteristics making it more generally useful than evergreens of definitely pyramidal formation.

J. G.

NURSERY STOCK

Red-leaved Barberry

	Per 100	Per 1000
2 and 3-yr., S.,		
9 to 12 ins.	\$ 6.00	\$ 50.00
12 to 18 ins.	8.00	70.00

Cornus florida (White Dogwood)

2 and 3-yr., S.,		
above grafting size	15.00	125.00
2 to 3 ft.	30.00	250.00
3 to 4 ft.	50.00	400.00
4 to 5 ft.	75.00	.....

Cydonia japonica (Japanese Flowering Quince)

1 and 2-yr., S.,		
9 to 15 ins.	7.50	65.00
12 to 18 ins.	20.00	175.00
2-yr., T., 15 to 21 ins.	35.00	.....

Forsythia Spring Glory

2 and 3-yr., C.,		
18 to 24 ins.	15.00	125.00
2 to 3 ft.	22.50	200.00
3 to 4 ft.	40.00	350.00
4 to 5 ft.	65.00	.....

BROUWER'S NURSERIES

P. O. Box 25 New London, Conn.

SEED

TREE and SHRUB

Importers, collectors and dealers of tree and shrub seeds. Purchase by mail the easy way. Write for free price list.

FORESTRY ASSOCIATES

160 E. Hamilton St.
P. O. Box 1069 Allentown, Pa.
Phone: HEmlock 4-5708

SHEPARD NURSERIES

Growers and Distributors of
ORNAMENTAL NURSERY STOCK
Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

LYNWOOD GOLD FORSYTHIA

Recent import from Ireland. Full-flowered; deep golden color. Heavy, outdoor frame rooted cuttings, approximately 1 ft.
\$12.00 per 100; \$100.00 per 1000.
BEARDSLEE NURSERY
Perry, O.

DE GROOT BULB CO.

HOLLAND AND DOMESTIC BULBS

for Spring and Fall

Write for wholesale price list.
12-02 Ellis Ave., Fair Lawn, N. J.

CERTIFIED BLUEBERRY PLANTS

Rooted Cuttings
22 Varieties

\$70.00 per 1000 and up

A. G. AMMON

Box 458

Chatsworth, N. J.

CK

or 1000
50.00
70.00

125.00
250.00
400.00

65.00
175.00

125.00
200.00
350.00

ES
Conn.

RUB

and
shrub
all the
price

TES

, Pa.
08

ES

of
CK

N. Y.

Full-
way,
rox-

y

t.

NTS

. J.



*** With an Outstanding PROMOTION PROGRAM—now in its 7th Successful Year!**

The pent-up pressure of many years of effective activity make MERION Kentucky Bluegrass sales for you. Newspaper ads in leading markets, national coverage through selected gardening magazines, a strong and continuous public relations program, informative brochures, in-store promotion materials . . . all these efforts build a constantly increasing consumer demand.

*** With the Foremost STANDARDS OF QUALITY in the Grower-Processor Field.**

The pioneer association in the trade maintains the integrity and development of MERION, the first and foremost of improved varieties of Kentucky Bluegrass. It grows stronger, more vital each year.

*** With the ENTHUSIASTIC ENDORSEMENT of Leading Turf Authorities!**

Scientists, growers, experimental stations, park superintendents, greenskeepers . . . *the men who know best* have placed their stamp of approval on MERION. Now in its twenty-fifth year of observation and evaluation, MERION has proved to be the continuing choice of the experts. Every year adds scores of new advocates in the ranks of this knowledgeable group.

*** With Continuing RESEARCH AND DEVELOPMENT Emphasis and Progress.**

Experimentation, testing, expansion of growing areas, new methods and controls . . . all continue to back up the leadership of MERION, the bluegrass with the approval of the Turf Research Foundation.

Send today for Complete **PROMOTION KIT** including New 1960 Information and Sales Aids . . . it's **FREE!**

MERION BLUEGRASS ASSOCIATION

101 Park Avenue, Room 607, New York 17, New York



NEW!

This Seal on your packages will build extra sales. Full details in Promotion Kit.

MERION BLUEGRASS ASSOCIATION

101 Park Ave., Room 607, New York 17, N. Y.

Please rush the 1960 MERION PROMOTION KIT to:

Name _____
Company _____
Address _____
City _____ State _____



ROSEBUSHES

For Spring Sales

Quality

Properly grown, carefully dug and graded, stored under ideal conditions to bring your roses to you with the highest degree of vitality.

Service

Storage, in our new, modern, cold storage, until you want them, printed labels for each bush, growing helps, colored pictures, at cost, to help you sell.

Satisfaction

That you are supplying your customers the best available.

Write for your copy of our descriptive list and prices.

Somerset Rose Nursery, Inc.

P. O. Box 608

New Brunswick, N. J.

ILEX CONVEXA

One of the largest blocks of hardy, northern-grown Ilex. Heavy, well-sheared plants with exceptionally good color. Prices are each per 100 (25 or more). Write for special quotation on large quantities.

18 to 24 ins.	\$3.00
24 to 30 ins.	3.75
30 to 36 ins.	5.50
3 to 3½ ft.	6.50

ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

QUALITY LINERS

	Per 100
Douglas Fir, blue 5 to 12 ins., T.	\$15.00
Colorado Blue Spruce 5 to 10 ins., T.	20.00
Canadian Hemlock 5 to 10 ins., T.	20.00
Pink-Flowering Dogwood 10 to 15 ins., grafts	75.00
15 to 24 ins., grafts	85.00

Send for New Spring List

POSSUM HOLLOW NURSERIES

6909 Henley St.
Philadelphia 19, Pa.

LINING-OUT STOCK

In Wide Assortment

Acer atropurpureum Bloodgood, Azaleas, Berberis, Cornus florida rubra, Evergreens, Ilex, Magnolias, Hybrid Rhododendrons, Taxus, in variety, etc., in 1, 2 and 3-yr. transplants at competitive prices. Write for list on business stationery.

DEERFIELD NURSERIES

Deerfield, N. J.

SEEDLINGS & TRANSPLANTS

Pines, Spruces, Firs, Hemlocks, etc.
Write for new price list.

PINE GROVE NURSERY

R. D. No. 3 Clearfield, Pa.

QUALITY LINERS

WILSEY EVERGREEN NURSERY

Corfu, N. Y.
Phone: East Pembroke 6411
Located Near Indian Falls

DWARF BOX PRIVET

See classified advertisement for complete listings.

Ask for complete nursery list.

MOSES NURSERIES

Lima, N. Y.

BOOK REVIEWS

PEONY BOOK WELCOME

The first book on the peony published in more than 25 years, "Peonies, Outdoors and In," will be welcomed by the many gardeners and commercial growers interested in that flower. The book was written by Arno Nehrling, well known as the secretary and director of publications of the Massachusetts Horticultural Society as well as for his earlier work in university instruction and in the commercial field, together with his wife, Irene Nehrling, a gardener, flower arranger and horticultural writer herself. Just published by Hearthsides Press, Inc., at \$5.95, this book of over 300 pages provides, as the subtitle indicates, "a complete guide to selecting, growing and using herbaceous and tree peonies."

General account of peony history, classification, flower types, growing climate and pruning seasons make up part 1 of the book.

Part 2 concerns the herbaceous peony and its use in garden design, border planting and combination with companionable plants. Selections of varieties are listed for the beginner and for the connoisseur, according to popularity, purpose, color, season and geography. American hybridizers and the newer hybrid varieties are discussed. The making of new plantings, from buying roots, choosing the site and preparing beds to setting out the roots, is covered. Then the care of established plants is discussed, as are diseases and insects, propagation and forcing, and problems that constantly produce peony queries.

The tree peony is similarly well covered in part 3. After discussion of general types and hybrids, their place in the landscape is given attention. As in the case of herbaceous peonies, the making of new plantings, care of established plants, propagation and selection of varieties for diverse purposes are well covered.

The use of peonies indoors is a subject of part 4. Their various uses in floral designs and arrangements, as well as large-scale decorations, are first touched upon. Then instructions are given how to cut, condition and dry for arrangements or for display. The various aspects of flower show exhibition are treated in detail.

A supplement, in part 5, lists private and public plantings which may be seen, retail nursery sources and

NEW MIST-A-MATIC SYSTEM

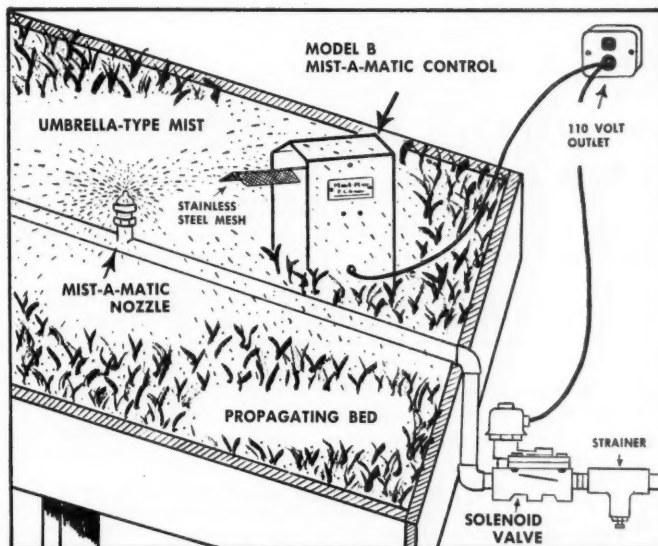
USES Weight of Water to Control Mist
AS SIMPLE AND NATURAL AS GRAVITY

THE VALUE OF MISTING SYSTEMS has been known and proved for over a decade. The common reason for not using one is the failures of complicated mechanisms and the difficulty of setting clocks to follow unpredictable weather changes. Too much water promotes disease and wastes money. Too little water causes leaves to wilt and failure to root. Control of the misting cycle should depend on the rate of evaporation, which can change many times during any day. Any successful system should be so simple and dependable, without resetting clocks, to follow weather changes day or night unattended by employees. Many systems more ex-

pensive than Mist-A-Matic and far more complicated fail to follow the weather cycles with the proper misting cycles, resulting in disappointing results. Mist-A-Matic has been acclaimed by practical growers as the most positive, foolproof system marketed. The new controlling unit is an improvement over the original upon which the reputation has been earned. It can be used for propagation, seed germination and wherever controlled moisture is wanted according to the weather. The description below will give you, without technical phrases, the simple principle that makes the system follow the mist needs of your planting.

How NEW Model B Works

In the sketch you will see the control unit, located under the mist "umbrella"; a special stainless steel screen in the unit catches the mist just like a leaf. When it fills up with water, the weight puts it in a downward position and throws the mercury switch to shut off the mist. When the water evaporates, as it does when a leaf dries, it becomes so light it returns to the upright position and misting starts again. Nothing could be simpler; it is the simplest system on the market. No direct labor needed day or night, week after week, it follows without resetting the needs of the plants. It has proved reliable with months of operation and without any maintenance.



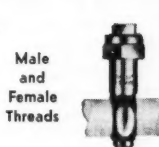
Model B Control Unit can replace any other type. Use your present system—just plug in and connect to the solenoid valve.

FEATURES

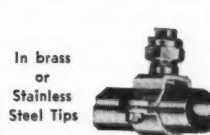
- No clocks to set
- No electronic tubes or knobs
- Not affected by water conditions
- Operates continuously day and night
- No relays
- No electrodes or bars to clean
- Works on weight of water trapped



1/4-in. Pipe Thread Nozzle



Male and Female Threads



In brass or Stainless Steel Tips

Eyelet Connected for Copper Tubing

Split Connector for 1/2 and 3/4-in. Pipe

Mist-A-Matic Control Unit Only\$46.00
Control Unit with Solenoid and Strainer 72.00
MIST-A-MATIC NOZZLES—One needed every 3 1/2 feet—Underline Type
Wanted. Type 1/4-in. Pipe Thread—Brass.....\$1.70 S. Steel.....\$3.35. How
Many??..... Eyelet Connected 1/2 O.D. Copper Tube—Brass, \$1.95;
S. Steel, \$3.70. No..... Split Connected for 1/2 and 3/4-in.—Brass, \$2.54;
S. Steel, \$4.17. How Many?.....
If check accompanies order, we prepay shipping. Check..... C.O.D.....

Print Name

Print Street

Print City

E. C. GEIGER

WRITE FOR COMPLETE DETAILS
Box 270, North Wales, Pa.

PINE — SPRUCE — FIR

Seedlings and Transplants

		Per 100	Per 1000
NORWAY SPRUCE (<i>Picea excelsa</i>)			
2-yr., S., 2 to 3 ins.	.....	\$ 6.00	\$ 22.00
2-yr., S., 3 to 4 ins.	.....	7.00	30.00
3-yr., S., 4 to 8 ins.	.....	8.00	40.00
4-yr., S., 8 to 10 ins.	.....	10.00	55.00
4-yr., S., 10 to 15 ins.	.....	15.00	75.00
5-yr., T., 4 to 8 ins.	.....	12.00	100.00
4-yr., T., 5 to 10 ins.	.....	15.00	120.00
4-yr., T., 10 to 12 ins.	.....	20.00	180.00
5-yr., T., 12 to 15 ins.	.....	25.00	200.00
SCOTCH PINE (<i>Pinus sylvestris</i>)			
2-yr., S., 3 to 6 ins.	.....	7.00	15.00
2-yr., S., 4 to 8 ins.	.....	8.00	25.00
3-yr., S., 5 to 10 ins.	.....	10.00	28.00
3-yr., S., 8 to 15 ins.	.....	12.00	35.00
4-yr., T., 10 to 15 ins.	.....	15.00	60.00
AUSTRIAN PINE (<i>Pinus nigra</i>)			
2-yr., S., 3 to 6 ins.	.....	10.00	35.00
3-yr., S., 6 to 8 ins.	.....	12.00	45.00
3-yr., S., 8 to 12 ins.	.....	15.00	55.00
WHITE SPRUCE (<i>Picea alba</i>), excellent blue-gray color			
2-yr., S., 3 to 6 ins.	.....	8.00	20.00
2-yr., S., 4 to 8 ins.	.....	10.00	28.00
3-yr., S., 8 to 10 ins.	.....	12.00	35.00
3-yr., S., 10 to 15 ins.	.....	15.00	45.00
4-yr., T., 4 to 6 ins.	.....	20.00	180.00
5-yr., T., 6 to 10 ins.	.....	25.00	200.00
5-yr., T., 10 to 15 ins.	.....	30.00	250.00
CONCOLOR FIR (<i>Abies concolor</i>)			
2-yr., S., 2 to 3 ins.	.....	12.00	35.00
2-yr., S., 3 to 4 ins.	.....	15.00	45.00
3-yr., S., 4 to 6 ins.	.....	18.00	55.00
DOUGLAS FIR			
2-yr., S., 2 to 3 ins.	.....	10.00	25.00
3-yr., S., 3 to 5 ins.	.....	12.00	30.00
4-yr., S., 4 to 8 ins.	.....	15.00	40.00
BLUE SPRUCE			
2-yr., S., 2 to 3 ins.	.....	7.00	30.00
2-yr., S., 3 to 4 ins.	.....	8.00	35.00
3-yr., S., 4 to 8 ins.	.....	10.00	40.00
3-yr., S., 8 to 10 ins.	.....	15.00	50.00

Discount: Less 6% on quantities of 5000 or more of a kind.

Order 100 at 100 rate; 1000 at 1000 rate.

Special prices on large quantities. Write us.

PALLACK BROS. NURSERIES, INC.

R. D. 1

Harmony, Pa.

Phone: Zellenople 780—We are not open Sundays.
30 miles north of Pittsburgh on Highway 19.

PACHYSANDRA TERMINALIS

1-yr., field-grown, vigorous plants.....	100	1000
Lots of 3000 or more.....	\$ 5.00	\$ 45.00
2-yr., field-grown, extra heavy.....	8.00	75.00
2½-in. pot-grown, 2 plants per pot.....	11.50	105.00

OTHER GROUND COVER PLANTS

<i>Euonymus fortunei coloratus</i> , 2-yr., field-grown.....	18.00	160.00
<i>Euonymus fortunei radicans</i> , 1-yr., field-grown.....	15.00	.....
<i>Hedera helix</i> , 2¼-in. pot-grown.....	12.50	115.00
<i>Hedera helix baltica</i> , 2¼-in. pot-grown.....	13.00	120.00
<i>Lonicera japonica halliana</i> , 2¼-in. pot-grown.....	11.00	100.00
<i>Vinca minor</i> , 2¼-in. pot-grown.....	13.50	125.00
<i>Vinca minor</i> Bowles variety, 2¼-in. pot-grown.....	16.00	150.00

Price F.O.B. Narberth

Packing Free

HANSEN BROS. NURSERIES, INC.

Narberth, Pa.

Phone: MOhawk 4-3923

JAPANESE RED BARBERRY

	Per 100	Per 1000	Per 5000
2-yr., S., 6 to 9 ins.....	\$ 6.00	\$ 50.00	\$200.00
2-yr., S., 9 to 12 ins.....	8.00	70.00	300.00
2-yr., S., 12 to 18 ins.....	10.00	90.00	400.00
2-yr., S., 18 to 24 ins.....	15.00	125.00	575.00
4-yr., T., heavy, 15 to 18 ins.....	30.00	275.00	.....
4-yr., T., heavy, 18 to 24 ins.....	35.00	325.00	.....
4-yr., T., heavy, 2 to 2½ ft.....	37.50	350.00	.....

FAIRVIEW EVERGREEN NURSERIES

Fairview, Erie Co., Pa.

a descriptive list of varieties registered by the American Peony Society. An index occupies 12 pages.

MIST PROPAGATION

Propagators interested in methods, techniques and equipment for mist procedure will find them well covered in a book of 136 pages, bound in stiff paper covers, entitled "Mist Propagation of Cuttings," by Patricia Rowe-Dutton, of the commonwealth bureau of horticulture and plantation crops, England. Besides an inclusive exposition of the various equipment, techniques and problems of mist propagation used here and abroad, in about a dozen short chapters, it includes a bibliography of 160 references, 27 of them being articles published in the American Nurseryman. A tabular appendix listing results obtained with mist propagation for various species of plants, arranged alphabetically according to genera, occupies the final 57 pages. Forty illustrations show structures and equipment, from this country and abroad. The book, published by the Commonwealth Agricultural Bureaux, England, is made available in this country through the American Nurseryman at \$1.50 postpaid.

NEW BOOK ON EVERGREENS

In view of the increased production and planting of evergreen trees and shrubs in this country in recent years, it is puzzling that the publication of new books about them has not kept pace with their popularity, dependence still being placed on the authoritative stand-bys of an earlier decade. So many will welcome "Evergreens for Every State," by Katharine M-P. Cloud, long well known as a landscape consultant and a horticultural writer, especially in reference to shrubs. Just published by the Chilton Co., at \$4.95, this well-illustrated book of 227 pages should be well received.

It has been written for the homeowner who wishes to learn more about the evergreens with which he may beautify his surroundings. Covering a considerable subject, it is concise in its presentation of information on, quoting the subtitle, "how to select and grow them successfully in your locality."

The five chapters in part 1 cover their uses; training in espalier, bonsai and topiary forms; phases of garden culture, propagation, and diseases.

Part 2, which occupies nearly half the book, presents alphabetically comments on the species and varie-

FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

		Each	Each			Each	Each			Each	Each
		100	1000			100	1000			100	1000
		rate	rate			rate	rate			rate	rate
Abies Concolor (Concolor Fir)				Juniperus pfitzeriana, regular				Pinus nigra (Austrian Pine)			
4 to 6 ins., 4-yr., T.	\$0.30	...		8 to 10 ins., 2-yr., T.	\$0.45	\$0.40		3 to 6 ins., 2-yr., S.	\$0.10	...	
5 to 10 ins., 6-yr., T. ....	.45	...		10 to 15 ins., 3-yr., T. ....	.55	.50		6 to 8 ins., 3-yr., S. ....	.12	...	
Azalea mollis (Chinese Azalea)				Juniperus glauca hetzi (Hetzi Juniper)				8 to 12 ins., 3-yr., S. ....	.15	...	
3 to 6 ins., 2-yr., T. ....	.15	\$0.12		8 to 10 ins., 2-yr., T. ....	.32	.30		Pyracantha coccinea lalandi			
Azalea mucronulata, lavender				10 to 12 ins., 2-yr., T. ....	.35	.32		(Fire Thorn)			
1 to 3 ins., 1-yr., T. ....	.25	.20		12 to 16 ins., 3-yr., T. ....	.45	.42		6 to 8 ins., 2-yr., T. ....	.32	\$0.30	
4 to 8 ins., 2-yr., T. ....	.35	.32		12 to 18 ins., 4-yr., cutback. ....	.55	.50		10 to 12 ins., 3-yr., T. ....	.40	.38	
8 to 10 ins., 3-yr., T. ....	.45	...		Juniperus hibernica fastigiata				12 to 18 ins., 3-yr., T. ....	.50	.45	
Buxus sempervirens welleri				(Irish Juniper)				Rhododendron Hybrid, various colors			
(Weller's Hardy Boxwood)				8 to 10 ins., 2-yr., T. ....	.35	.30		3 to 8 ins., 3-yr., T. ....	.45	...	
4 to 6 ins., 2-yr., T. ....	.28	.25		10 to 12 ins., 3-yr., T. ....	.38	.33		5 to 8 ins., 4-yr., T. ....	.55	...	
6 to 8 ins., 2-yr., T. ....	.35	.32		12 to 15 ins., 3-yr., T. ....	.45	.40		8 to 10 ins., 4-yr., T. ....	.85	...	
8 to 10 ins., 3-yr., T. ....	.45	...		Juniperus pfitzeriana compacta				Rhododendron catawbiense,			
10 to 15 ins., 3-yr., T. ....	.55	.50		8 to 10 ins., 2-yr., T. ....	.45	...		rosy-purple			
Chamaecyparis lawsoniana alumi				10 to 12 ins., 3-yr., T. ....	.55	...		4 to 6 ins., 2-yr., T. ....	.40	.35	
8 to 10 ins., 2-yr., T. ....	.30	.28		12 to 15 ins., 4-yr., T. ....	.60	.55		6 to 8 ins., 2-yr., T. ....	.50	.45	
10 to 12 ins., 3-yr., T. ....	.45	...		Juniperus pfitzeriana aurea				8 to 12 ins., 3-yr., T. ....	.65	.60	
12 to 15 ins., 3-yr., T. ....	.50	...		8 to 10 ins., 2-yr., T. ....	.40	...		Taxus capitata (Upright			
Chamaecyparis plumosa aurea				10 to 12 ins., 3-yr., T. ....	.50	.45		Japanese Yew, seed-grown			
(Golden Plume Cypress)				12 to 15 ins., 3-yr., T. ....	.60	.55		4 to 6 ins., 3-yr., T. ....	.28	.25	
6 to 8 ins., 2-yr., T. ....	.35	.30		Juniperus squamata meyeri				6 to 8 ins., 3-yr., T. ....	.38	.32	
8 to 10 ins., 2-yr., T. ....	.40	.38		(Meyer's Juniper), blue-green				8 to 10 ins., 4-yr., T. ....	.55	.45	
10 to 15 ins., 3-yr., T. ....	.50	.45		4 to 6 ins., 2-yr., T. ....	.40	...		10 to 12 ins., 6-yr., T. ....	.75	.65	
Euonymus alatus (Winged Euonymus)				6 to 10 ins., 3-yr., T. ....	.48	...		12 to 15 ins., 6-yr., T. ....	.90	.80	
6 to 10 ins., 3-yr., T. ....	.35	...		Koeleruteria paniculata				Taxus cuspidata (Spreading Yew)			
Euonymus fortunei coloratus				(Golden-Rain Tree)				6 to 8 ins., 2-yr., T. ....	.38	.35	
8 to 12 ins., 2-yr., T. ....	.25	.22		12 to 18 ins., 4-yr., T. field. ....	.25	...		8 to 10 ins., 2-yr., T. ....	.45	.40	
10 to 15 ins., 3-yr., T. ....	.35	.32		18 to 24 ins., 5-yr., T. field. ....	.30	...		10 to 12 ins., 3-yr., T. ....	.50	.45	
Euonymus fortunei erectus				2 to 2 1/2 ft., 6-yr., T. field. ....	.35	...		10 to 15 ins., 4-yr., T. field. ....	.65	.55	
12 to 18 ins., 3-yr., T. ....	.50	...		Leucothoe catesbaei				Taxus media hicksii (Hicks' Yew)			
Euonymus radicans vegetus				(Drooping Leucothoe)				6 to 8 ins., 2-yr., T. ....	.35	...	
8 to 10 ins., 2-yr., T. ....	.35	...		8 to 10 ins., 3-yr., T. ....	.35	.30		8 to 10 ins., 2-yr., T. ....	.45	...	
10 to 15 ins., 3-yr., T. ....	.45	...		10 to 12 ins., 3-yr., T. ....	.45	.42		10 to 15 ins., 3-yr., T. ....	.55	...	
Hex Crenata (Japanese Holly)				12 to 15 ins., 3-yr., T. ....	.55	...		Thuja occidentalis douglasii aurea			
6 to 8 ins., 1-yr., T. ....	.25	.20		Liquidambar styraciflua (Sweet Gum)				(Geo. Peabody Arborvitae),			
8 to 10 ins., 2-yr., T. ....	.35	...		12 to 18 ins., 2-yr., field. ....	.65	...		golden pyramid			
10 to 15 ins., 3-yr., T. ....	.45	...		18 to 24 ins., 3-yr., field. ....	.10	.08		6 to 8 ins., 2-yr., T. ....	.35	.32	
12 to 18 ins., 3-yr., T. ....	.65	.60		2 to 3 ft., 2-yr., field. ....	.12	.10		8 to 10 ins., 3-yr., T. ....	.45	...	
Hex crenata convexa (bullata)				Picea excelsa (Norway Spruce)				10 to 12 ins., 3-yr., T. ....	.55	...	
6 to 8 ins., 1-yr., T. ....	.25	.22		10 to 12 ins., 4-yr., T. ....	.15	.12		Thuja occidentalis elegantissima lutea			
8 to 10 ins., 2-yr., T. ....	.35	.32		12 to 15 ins., 5-yr., T. ....	.20	.18		6 to 8 ins., 2-yr., T. ....	.35	.30	
10 to 12 ins., 2-yr., T. ....	.45	.42		Picea pungens				8 to 10 ins., 3-yr., T. ....	.40	.35	
12 to 15 ins., 3-yr., T. ....	.55	.52		(Colorado Blue Spruce)				10 to 12 ins., 3-yr., T. ....	.45	.40	
12 to 18 ins., 5-yr., field row	.95	.90		4 to 6 ins., 4-yr., T. ....	.25	.20		12 to 15 ins., 4-yr., T. field. ....	.55	.50	
spaced.	1.00	.90		6 to 8 ins., 4-yr., T. ....	.30	.25		15 to 24 ins., 4-yr., T. ....	.65	...	
Hex crenata hellei				8 to 10 ins., 5-yr., T. ....	.45	.40		Thuja occidentalis globosa			
(Heller's Dwarf Holly)				10 to 15 ins., 5-yr., T. ....	.55	.50		(Woodward Globe Arborvitae)			
3 to 6 ins., 2-yr., T. ....	.35	...		Pieris japonica				6 to 8 ins., 1-yr., T. ....	.28	...	
4 to 8 ins., 3-yr., T. ....	.45	...		(Japanese Andromeda)				8 to 10 ins., 2-yr., T. ....	.35	.32	
Hex crenata hetzi				1 to 3 ins., 1-yr., T. ....	.20	.18		10 to 12 ins., 3-yr., T. ....	.40	.38	
8 to 10 ins., 2-yr., T. ....	.40	.38		3 to 4 ins., 2-yr., T. ....	.28	.25		12 to 15 ins., 3-yr., T. ....	.55	...	
10 to 12 ins., 3-yr., T. ....	.45	.42		4 to 6 ins., 3-yr., T. ....	.35	.30		15 to 18 ins., 4-yr., T. ....	.65	.55	
12 to 15 ins., 4-yr., T. ....	.60	.55		6 to 8 ins., 4-yr., T. ....	.38	...		Tsuga canadensis (Hemlock)			
15 to 18 ins., 5-yr., T.	1.00	.90		Pseudotsuga douglasii				6 to 8 ins., 3-yr., T. ....	.35	...	
Hex rotundifolia				(Douglas Fir)				8 to 10 ins., 4-yr., T. ....	.40	...	
(Round-leaved Japanese Holly)				4 to 6 ins., 4-yr., T. ....	.25	.20		10 to 15 ins., 4-yr., T. ....	.55	.50	
8 to 10 ins., 2-yr., T. ....	.35	.30		6 to 8 ins., 4-yr., T. ....	.30	.25		Viburnum opulus nanum			
10 to 12 ins., 3-yr., T. ....	.40	.35		Pinus mugo (Dwarf Mugho Pine)				(Dwarf Bush Cranberry)			
12 to 15 ins., 4-yr., T. ....	.50	.45		2 to 3 ins., 3-yr., S. ....	.10	.09		2-yr., T. field. ....	.25	.22	
12 to 15 ins., 5-yr., T. heavy	.65	.60		3 to 5 ins., 3-yr., T. ....	.20	.18		4 to 8 ins., 3-yr., T. ....	.35	.32	
15 to 18 ins., 6-yr., T. field.	1.00	.90		5 to 8 ins., 4-yr., T. ....	.25	.20		6 to 8 ins., 4-yr., T. ....	.45	.42	
Juniperus Andorra											
(Purple Andorra Juniper)											
6 to 8 ins., 1-yr., T. ....	.30	...									
8 to 10 ins., 3-yr., T. ....	.45	.40									
12 to 15 ins., 4-yr., T. ....	.50	.45									
Juniperus canadensis aurea											
(Golden Canadian Juniper)											
4 to 6 ins., 1-yr., T. ....	.25	...									
6 to 8 ins., 2-yr., T. ....	.35	...									
8 to 10 ins., 3-yr., T. ....	.45	...									
10 to 15 ins., 4-yr., T. ....	.55	...									

Lining-out Stock. 25 at the 100 Rate. 300 at the 1000 Rate.

TERMS: Free packing for cash with order, otherwise 1/2 deposit with order and balance C.O.D. Packing at cost. All shipments by railway express.

Write for our complete price list.

PALLACK BROS. NURSERIES, INC.

Phone: Zellenople 789 (or 644 evenings)

(We are not open Sundays)

(31 mi. north of Pittsburgh, Pa., on Rt. 19)

R. D. 1. HARMONY, PA.

ties of coniferous and broad-leaved evergreens, as grown in all parts of the country. Since it is stated that nearly 500 species and varieties are included in these comments, it can be understood that sometimes they are more brief than one would perhaps prefer. But as an inclusive reference guide on evergreens they are markedly useful.

Parts 3 and 4 of the book are composed of reports on evergreens from individual states and provinces of Canada. From some recognized hor-

ticulturist in each state or province appear replies to questions on best season for planting, time of pruning, mulching and species and varieties recommended for planting in the locality.

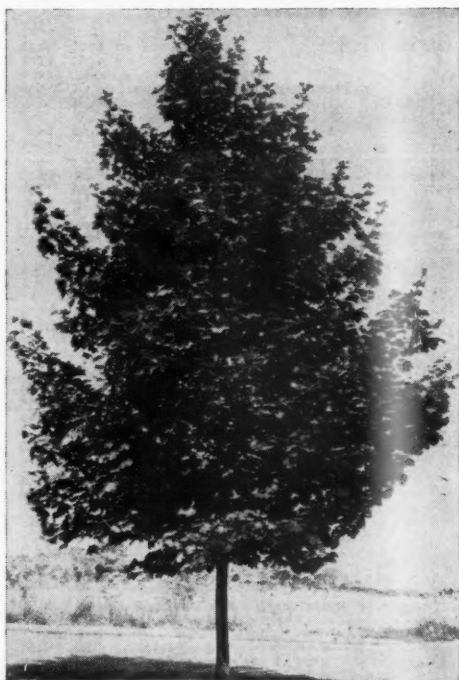
In the introduction the homeowner is advised to carry his further inquiries to a local nurseryman. An index of 10 pages adds to the usefulness of this volume, which is made exceedingly attractive by the reproduction of 82 excellent photographs of specimen evergreens or views of

their use in plantings, each illustration from one-half page to a full page in size.

MENNES RECEIVES AWARD

At its annual awards dinner, the chamber of commerce of the Tonawandas, in New York state, honored Menno S. Mennes, president of the Mennes Nursery & Garden Center, North Tonawanda, with a certificate of merit for substantial contribution to the Tonawandas in 1959. Mr. Mennes, a veteran of over 30 years

SUMMERSHADE MAPLE



SUMMERSHADE MAPLE
(Plant Patent No. 1748)

(Plant Patent No. 1748)

The new, rapid-growing, heat-resistant, upright Norway Maple developed at Princeton Nurseries. For over a decade we have been working with Norway Maples to produce a variety especially adapted to adverse hot-weather areas. This new Summer Shade Maple is the most outstanding Norway Maple we have ever seen.

The very dark green foliage is large, leathery and resists wind burn and insect injury. The tree grows much more rapidly, is a self-branching type and quickly forms a shapely upright head with the leader maintained to the top.

Its superb growth rate, form and foliage will make money for you.

Unit Price in Quantities

2 years or more, branched

	1 to 9	10 to 49	50 to 249
6 to 8 ft.	\$ 4.90	\$ 4.05	\$ 3.25
8 to 10 ft., 1 to 1 1/4-in. cal. . .	6.75	5.50	4.50
9 to 11 ft., 1 1/4 to 1 1/2-in. cal. .	10.00	8.00	6.50
10 to 12 ft., 1 1/2 to 1 3/4-in. cal. .	12.50	10.25	8.15
11 to 13 ft., 1 3/4 to 2-in. cal. . .	16.00	13.00	10.50

PRINCETON NURSERIES

"America's Finest Tree Nursery"

Phone: WALnut 4-1776

Princeton, N. J.

in the nursery trade, is also head of Menne-Pots, Inc., North Tonawanda.

Mennes Nursery & Garden Center, covering 30 acres on Niagara Falls boulevard, is one of the largest nurseries on the Niagara frontier. Renovations, improvements and expansion in 1959 included an addition to the garden center building, a new electrical sign, off-street parking space and enlarging of display beds and other facilities. The firm employs 30 persons in the off season and as many as 100 in the busy landscaping and planting periods.

NEW JERSEY GAIN

An increase of 121 nurseries in the state of New Jersey in 1959 brings the state total to 1,036, according to William W. Metterhouse, supervisor of nursery inspection, New Jersey department of agriculture. The number has more than doubled since 1948, when there were 490 nurseries in the state.

Bergen county still leads the state in the number of nurseries, with 160 such establishments. Morris county ranks second, and Monmouth county, third.

In total acreage devoted to commercial production of nursery trees

BROWN BROS. CO.

East Rochester, N. Y.

Birch Clumps
Birch Cut-leaved Weeping
Cherry Kwanzan
Flowering Crab Apples
Fruit Trees, in variety
Maples, in variety
Rosa multiflora japonica
Barberry Red, 2-yr., S.
Dwarf Apple Understocks E. M. I-VII-IX

Trade List Upon Request
"Our 75th Year"

**IF YOU'RE LOOKING
FOR QUALITY
EVERGREEN SEEDLINGS
OR
CUT CHRISTMAS TREES**

Why not write today —

SCHROTH'S NURSERY
R. D. 2 Clymer, Pa.

For a Complete List

See Our Ad in American Nurseryman
Page 64, March 15 Issue

SAM DIBLE NURSERY
Shelcta, Pa.

BOBBINK NURSERIES, INC.

Specialists in Coniferous and
Broad-Leaved Evergreens,
Shrubs and Trees.

586 Paterson Ave.

East Rutherford, N. J.



When you look for Euonymus—
LOOK for the EMERALD!
CORLISS BROS., INC. Ipswich, Mass.

TAXUS CAPITATA

2-yr., S.
7c each 1000 rate
6c each 5000 rate
5c each 10,000 rate

A. N. PIERSON, INC.
Cromwell, Conn.

EVERGREEN SEEDLINGS

By the 100 or 1,000,000
Write for free price list.

CANALE'S FOREST NURSERY
Shelcta, Pa.
Phone: Elderton, Fleetwood 4-2461

SHADEMASTER LOCUST

(Plant Patent No. 1515)

This now famous tree is the result of many years of painstaking research, in which we were successful in eliminating all of the faults common in ordinary Honey Locusts.

Shademaster Locust is a rapid-growing tree with straight trunk, ascending branches and heavy dark green foliage. It is drought-resistant, deep-rooting and does not heave sidewalks. It transplants easily and no leaf raking is necessary in the fall.

Nurserymen, arborists and park superintendents agree that it is America's outstanding, upright Thornless Honey Locust.

Unit Price in Quantities
1 to 9 10 to 49 50 to 249

2 years or more, branched

6 to 8 ft.	\$ 6.00	\$ 5.00	\$ 4.00
8 to 10 ft., 1 to 1 1/4-in. cal.	8.50	7.00	5.50
9 to 11 ft., 1 1/4 to 1 1/2-in. cal.	11.20	9.50	7.50
10 to 12 ft., 1 1/2 to 1 3/4-in. cal.	13.50	11.00	9.00
11 to 13 ft., 1 3/4 to 2-in. cal.	17.00	14.00	11.00

PRINCETON NURSERIES

"America's Finest Tree Nursery"

Phone: WALnut 4-1776

Princeton, N. J.



SHADEMASTER LOCUST (Plant Patent No. 1515)

and shrubs, Monmouth county was at the top with 1,687 acres. In second and third place, respectively, were Middlesex and Cumberland counties. For the state as a whole, 7,816 acres were used for nursery production in 1959, 365 acres more than in 1958.

Evergreens showed the largest increase, 233 acres, in land used. Broad-leaved evergreens and deciduous shade trees also increased substantially in acreage. Plant categories which decreased in acreage during 1959 were flowering trees and shrubs and fruit trees.

HENRY J. HOHMAN this spring completes 48 years since first entering professional horticultural work. As proprietor of the Kingsville Nurseries, Kingsville, Md., he is widely known for the extensive collection of plants, one of the largest of any nursery in this country, including many varieties of azaleas, hollies, flowering trees and unusual plants.

FLOWERLAND NURSERY, Houston, Tex., gave away thousands of young pine seedlings in 1-quart cans to Houston children as a contribution to a city-wide beautification drive.

JAPANESE RED MAPLES

Field-grown, grafted Japanese Red Maples, well-pruned, very bushy plants. Your inspection invited.

	Bare Root Each	B&B Each
9 to 12 ins.	\$1.60	\$1.92
12 to 15 ins.	2.20	2.64
15 to 18 ins.	2.70	3.24
18 to 24 ins.	3.30	3.96
24 to 30 ins.		5.28
30 to 36 ins.		6.96

Packing at cost. Nursery pickup only on balled and burlapped stock.

GORTON'S NURSERY

7486 E. Lake Rd.

Erie, Pa.

MAXWELL, BOWDEN AND RICE, INC.

Growers of Fine Nursery Stock

WHOLESALE ONLY

Roses — Shrubs — Fruit Trees — Ornamentals — Vines — Hedge

Geneva, N. Y. — Phone: 8131

Up to 7 to 8 ft.
Pink and white

DOGWOOD

Upright and
Spreading

YEW

Write for price list. All stock certified for western shipment. We would enjoy having you visit us and look over our stock.

CLINTON NURSERIES

Clinton, Conn.
on Boston Post Rd. (U.S. 1) • MOnroise 9-8611

JAPANESE RED BARBERRY

2-yr., Heavy, Not Transplanted

Samples Free Upon Request

	Per 100	Per 1000	Per 5000
Lining-out grade..	\$ 4.50	\$ 40.00	\$175.00
6 to 9 ins.	6.00	50.00	200.00
9 to 12 ins.	8.00	70.00	300.00
12 to 15 ins.	10.00	90.00	400.00
15 to 18 ins.	12.00	110.00	.....
18 to 24 ins.			
4-yr., T.	35.00	.....	.....

New Spring Trade List now ready.

BROWN BROS. CO.

East Rochester, N. Y.

"Our 75th Year"

Urban Redevelopment

Topic Discussed at Recent Michigan Convention

MALLS AND BOULEVARDS

The history of the development of malls in downtown areas was discussed by Malcolm Waring, Waring-Johnson, Detroit. The idea of the mall is not new, according to Mr. Waring. In the fifth century the Greeks called a mall "agora," or market place. Only pedestrian traffic was permitted within the borders of the agora, in which olive trees and other plantings were featured. As the United States developed, market places arose where trails or railroads crossed. Later, town squares were developed and usually contained the courthouse with a large expanse of lawn and trees. Many examples of the square are still in existence in the midwest.

Our modern shopping centers and redevelopment projects have been brought about by our mode of living and especially by the automobile, Mr. Waring said. Our modern shopping centers combine the talents of the market analyst, the engineer, the site planner, the architect and the landscape architect. Malls are of various shapes; a garden motif is usually the backbone of the design, and interior auto traffic is eliminated in many instances.

First Modern Developments

The first of the so-called modern developments was Rollin park at Baltimore, Md., which was opened in 1907. This was followed by many others, such as the Jason Nichols development at Kansas City, Mo., in 1920, the first to feature a unified architecture. Dallas, Tex., was the first city to turn the store fronts away from the streets. Many of our cities are now building or planning facilities similar to Detroit's Northland and Eastland, Mr. Waring concluded.

An example of urban redevelopment was explained by Richard Vadick, a member of the Detroit department of parks and recreation. Mr. Vadick opened with the following quotation from a 1958 edition of the Detroit Free Press: "Downtowners rubbed their eyes one morning early this month at the sight of green leaves rustling in the breeze along their familiar canyon. For 12 days, hawthorn swayed gently in 14 shiny, redwood tubs, whispering of shady groves and distant country walks. It was a brief, tentative start to a long-term effort to turn down-

town Detroit into an eye-tickling pleasure grove of green, to which shoppers and tourists will swarm like kids to a playground. There is green-dollar sense to the green-downtown dream. The luxuriant growth of elaborately landscaped outlying shopping centers has made green the favorite color of merchants who used to think trees did nothing except hide their signs."

This article described the response of the average citizen to the experimental planting of boxed trees on Woodward avenue, in downtown Detroit. Downtown businessmen were even more enthusiastic about the tree plantings and wanted the program expanded to several other major downtown streets. The department of parks and recreation and the city plan commission experimented with various box designs. Some of the problems included a box large enough to insure tree growth, a box that was attractive, durable and reasonable in cost.

The members of the Central Business District Association were con-

vinced that trees were a must for downtown Detroit and that the merchants would pay the bill. Further studies were made, and a program was recommended. Underground utilities and extended pavements prevented the planting of trees directly in the ground. Therefore the use of planting boxes that could be left in place the year around would be necessary. After considerable experimentation a concrete box was selected as the best for prevailing conditions.

Selection of Trees

The selection of trees depended upon several factors: The trees must be hardy for box planting; they must be tolerant of shade, wind, smoke and gas; they must be reasonable in cost, straight-stemmed and uniform in appearance, and they must be available in large quantities. Red maple, Chinese elm and hawthorn were selected, and it was recommended that a private landscape contractor plant and maintain the trees. To make the boxes more attractive, flowers of various species were planted at the base of the trees to provide summer color, and evergreen boughs were added in the winter.

In June, 1959, 115 boxes were set out on Woodward avenue, Washing-

PACHYSANDRA

Terminalis (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

	Per 100	Per 1000	Per 1000 for
Strong, well-rooted, 1-yr. plants; propagated		Prepaid	F.O.B. here
in soil and peat frames with light shade....	\$6.50	\$53.00	\$49.00

Available for prompt shipment throughout the year. Shipments anywhere including Canada. GOOD PACKING FREE. A good source of supply.

PEEKSKILL NURSERY

Phone: Lakeland 8-5595
SHRUB OAK, N. Y.

TAXUS

In varieties,
certified for western shipment.

BULK'S NURSERIES, INC.

610 W. Montauk Hwy.
Babylon, N. Y.
Phone: MOhawk 9-4400

Smithburg-Manalapan Rd.
Freehold, N. J.
Phone: HOpins 2-5500

TREE PEONIES

Ready to Pot for Spring Sales
Ask for Wholesale Price List
VANDER POL TREE PEONY GARDENS
Fairhaven, Mass.

LINING-OUT STOCK

Seedlings, Rooted Cuttings
and Transplants
Write for list.

LEGHORN'S EVERGREEN NURSERY CO., INC.
50 Geer St. Cromwell, Conn.

ROOTED CUTTINGS

Taxus densiformis
Taxus Moon's columnaris
\$110.00 per 1000, ready in May.
25,000 available.
Wholesale Nursery Material

HERMITAGE GARDENS
Rt. 5 Canastota, N. Y.



Propagators and Growers of
Superior Quality Stock
Write for complete
price list.

BENNETT'S NURSERY
R. D. 1 Homer City, Pa.
Phone: GRidley 9-8861

ton boulevard and Adams avenue at a cost of \$22,500, which included maintenance, flowers and evergreen boughs. The unit costs were: Tree box, \$70; tree, \$30; planting and setting out the boxes, \$15, and annual maintenance and cost of flowers and evergreens, \$40, bringing the total unit cost of a tree to \$155.

Since the trees have been in place they have attracted a great deal of attention. A large-scale redevelopment program is now in progress, which will give downtown Detroit more open space, trees and lawn areas in the future. The landscape architect, the forester, the nurseryman and the planner have worked together to make Detroit an even better place to live in and shop. Land that is valued at \$7 per square foot has been converted into lawn and plantings, and it has been found that the landscaping actually increases the value of the surrounding property.

The city of Detroit is also redeveloping its 200 park areas to be more attractive and useful for its citizens. The object of the parks and recreation department is to put the green back into the city of Detroit.

MANAGEMENT OF LAWNS

"Lawns—Friend or Foe?" was the title of a panel discussion at the Michigan convention under the chairmanship of William Mihelich, Jr., William Mihelich & Son Nursery, East Detroit.

First he called upon Andrew Bertoni, golf course superintendent at the Meadowbrook Country Club, Northville, who discussed bent grass lawns. There are 237 known strains of bent grasses. Good strains, he said, have been developed by Dr. Musser, at Penn State University. Bent lawns should be mowed often and close, he advised, and should not receive too much phosphate.

He suggested trial of a bent lawn, using a mixture of Highland and Astoria strains. The kind of lawn is a matter of management. If one sows 10 per cent bents, 50 per cent bluegrass and 40 per cent fescue, then mows the grass to two inches and does not water and fertilize much, the fescue will take over. If one mows the grass to one and one-half inches, watering and fertilizing it adequately, the bluegrass will eventually take over. If grass is watered often, fertilized heavily and cut to one-half inch, the bent grass will take over.

Dollar spot can be a troublesome disease of bent grasses. Mr. Bertoni advised the use of PMAS to con-

NEW BOOKS

The Evergreens—By James H. Beale

New book on evergreen trees and shrubs, narrow-leaved and broad-leaved, with separate treatment of the heath family. Introductory chapters cover uses of the two groups, hardiness factors, soil preparation, planting and aftercare and pruning. Conifers and broad-leaves discussed by genera, with chief species and varieties described. 285 pages, 43 illus., five in color.

Price, \$4.50

Evergreens for Every State—By Katharine M-P. Cloud

Up-to-date book on evergreen trees and shrubs, both coniferous and broad-leaved. Comments on over 500 species and varieties. Reports from individual states and Canadian provinces on recommended varieties there, planting time, pruning and mulching. Information on uses, training, propagation, insects and diseases. 227 pages, 82 illustrations.

Price, \$4.95

Peonies, Outdoors and In—By Arno and Irene Nehrling

First book published in 25 years on the peony. Thoroughly covers growing in the garden and use in landscape design of both herbaceous peonies and tree peonies. Lists of varieties for various purposes for beginner and connoisseur. Newer American hybrids discussed. Cultural topics well covered. Peonies for flower arrangements and for exhibitions, use and preparation, feature of the book. Over 300 pages, well illustrated.

Price, \$5.95

"Mist Propagation of Cuttings"

Techniques and various types of equipment, used in the U. S. A. and abroad, described and illustrated. Bibliography of 160 technical and trade paper articles; 57-page tabular list of results with many species and varieties of plants. 160 pages, 40 illus.

By Patricia Rowe-Dutton, of Commonwealth Bureau of Horticulture and Plantation Crops, England.

For sale in U. S. A., at \$1.50 per copy postpaid, by

AMERICAN NURSERYMAN

343 S. Dearborn St., Chicago 4, Ill.

BLOODGOOD NURSERIES

Dept. American Nursery Co.
R. D. 1 Doylestown, Pa.

Established 1790

Landscape Material

Acer platanoides (Norway Maple)

	Each	Per 10	Per 100
1 1/4-in. cal.	\$ 4.50	\$ 3.25	\$3.00
1 1/2-in. cal.	7.00	5.50	5.00
1 3/4-in. cal.	9.50	8.00	7.00
2-in. cal.	12.50	10.00	9.00

Serving the Wholesale Trade

EVERGREENS

300 acres of choice Evergreens

ready for immediate resale

Write for list.

GARDNER'S NURSERIES, Inc.
ROCKY HILL, CONN.

TAXUS

2-yr., T.

Browni
Halloran
Moon's columnaris
Thayerae
Densifloris
Hicksi
Wardi

Taxus cuspidata capitata
2-yr., S.

Send for list.

VERKADE'S NURSERIES

P. O. Box 336
New London, Conn.

DWARF APPLES

2-yr. on Malling I-VII-IX

	Per 100
11/16-in. cal.	\$150.00
9/16-in. cal.	125.00
Cortland	Red Delicious
McIntosh Rogers	Yellow Delicious
Northern Spy	Yellow Transparent

Dwarf 5-N-1 on Malling VII
\$200.00 per 100

New Spring Trade List now ready.

BROWN BROS. CO.

East Rochester, N. Y.
"Our 75th Year"

ATTRACTIVE—Quality Price

Taxus capitata, 4 to 9 ft.
Beautiful dark green pyramids.

Cornus florida, 6 to 12 ft.
Specimens, well budded.

Pinus strobus, 5 to 12 ft.
Bushy, compact, nice.

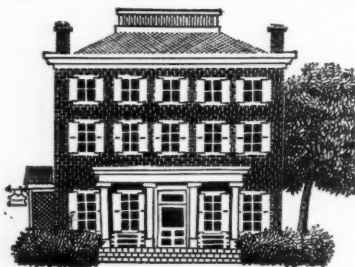
Quercus palustris, 4 to 7-in. cal.
Nursery-grown, straight leaders.

Viburnum carlesi, 2 to 4 ft.
Many flower buds, compact plants.

65 acres in wide variety. Established 40 years.

GEORGE F. BLOOMER NURSERIES

Rt. 69 Flemington, N. J.
Phone: STate 2-3259



Fine stock
at minimum prices

Specializing in

Junipers, Biotas, Taxus,
Broadleaves

See classified ad this issue.
Write for complete price list.

South Jersey

Colonial Nurseries, Inc.

Wholesale

R. D. 1, Salem, N. J. (Yellowstone 5-2356)

CAROLINA HEMLOCK

Well-Sheared Specimens

	Each
2 to 2 1/2 ft.	\$4.50
2 1/2 to 3 ft.	5.25
3 to 3 1/2 ft.	6.25
3 1/2 to 4 ft.	7.25
4 to 4 1/2 ft.	8.50
4 1/2 to 5 ft.	9.75

Canada Hemlock, to 7 ft.

Named **AMERICAN HOLLY** Specimens
3 to 5 ft., Individually Priced

HEMLOCK HOLLOW NURSERY

R. D. 3 Wexford, Pa.
Phone: WE 5-1009
17 miles north of Pittsburgh.

trol it. He suggested three basic fertilizer applications a year and thought urea fertilizers lessened the danger of dollar spot and other fungus diseases.

Merion bluegrass is not likely to do well if given much water; a good soaking occasionally is desirable. Insect control on bluegrasses is becoming more of a problem, he added. Dieldrin and chlordane are effective. Mr. Berton advised being careful in using high-nitrogen fertilizers on fescue grasses.

William Johnson, N. J. Hamlick Sod Nursery, Brown City, Mich., explained that his company just grows Merion bluegrass sod. Plenty of nitrogen is needed for lawn growth. He advised fertilizing heavily. Merion bluegrass, he said, is seeded in fall at the nursery and germinates in seven days. The company avoids the use of phosphorus, as it encourages clover growth.

Reporting on the new Newport grass, originated in 1944 at Newport, Ore., William Olsen, Martin Olsen Nursery, Detroit, said it is considered a form of Kentucky bluegrass. It is darker green than common bluegrass, but the blades are not so wide as in the Merion strain. It has a good root system and throws out many rhizomes. The grass will stand heavy wear and will take a close cutting, but grows best if mowed to two and one-fourth inches.

ROOF GARDEN NURSERY

[Continued from page 13]

anything that can be conveniently taken out, such as seeds or bulbs, the order must be over \$5 to have free delivery. More and more, the nursery is having the merchandise shipped direct by the grower to the consumer.

Mr. Burr points to another fact which necessitates their setting ample mark-ups—all Emporium employees are entitled to purchase merchandise at a discount, and the nursery sells a great deal to employees.

One of the most interesting and helpful phases of such an operation is the fact that the nursery keeps potted plants in bloom at all times at the information booth, and at the front entrance there is a sign advertising what is being featured in the nursery.

The Roof Garden Nursery does more business around Christmas, Easter and Mothers' day than the average nursery. However, its good months are the same as for any other nursery. Mr. Burr writes a weekly column, titled "Your Garden," for the San Francisco News Call-Bulletin. This contains his by-

SUGAR MAPLE

for

Streets—Parks—Forests

Long Life—Strength—Coloring

Collected. Nursery-Grown.

Any quantity available.

1/2 to 12-in. cal.

Beech, Ash, Red Maple, Red Oak, Birch and Shadblow also available.

R. H. ROGERS NURSERY
COOPERSTOWN, N. Y.



NURSERY SALES, INC.

P. O. Box 295, 525 Stevens Ave.
Ridgewood, N. J.

Phone: GI 4-6848

Affiliate of Peninsula Nurseries, Inc.
Melfa, Va.

Landscape-size Evergreens, Azaleas,

Ornamental Trees and Plants

Specializing in heavy, quality,
lining-out stock.

RHODODENDRONS AZALEAS ILEX

The best of the old and the cream of the new, in **QUALITY, QUANTITY** and **VARIETY**.

WELLS NURSERY

Box 141 Red Bank, N. J.

NEPCO LAKE NURSERY

TOP QUALITY

NORTHERN GROWN EVERGREENS



- seedlings
- transplants
- lining-out stock

WRITE FOR CURRENT PRICE LIST

NEKOOSA-EDWARDS PAPER CO., PORT EDWARDS, WIS. • PHONE TUXEDO 7-3100

line and the name of his nursery. Additionally, Mr. Burr is active in the California Association of Nurserymen, being a past president of the Peninsula chapter.

NORTH JERSEY ELECTION

At the March 17 meeting of the North Jersey Metropolitan Nurserymen's Association, held at the Peacock House, Wayne, N. J., the following officers were elected for 1960: President, Edward S. Wyckoff, Red Spade Nursery, Morristown; vice-president, Eric Johnson, Hackettstown Nurseries, Inc., Hackettstown; treasurer, Engel Zegers, Wayne, and secretary, Robert G. Weber, ABC Nursery, Inc., Dover. Gerard Grootendorst, Grootendorst Nurseries, Oakland, and James Corradi, Adolph Corradi & Son, Inc., Summit, were elected to the executive committee.

Speaker for the evening was Owen B. Schmidt, Moore & Sons, Inc., Narberth, Pa., talking on unusual plants and their use in the modern landscape. He supplemented his talk with slides. C. W. M. Hess, Sr., Hess' Nurseries, Mountain View, was elected honorary life voting member of the executive board.

R. S. Weber, Sec'y.

SCOTCH PINES

\$16.20 per 1000

(in 50,000 lots)

**5 MILLION READY TO SHIP—ALL TOP-QUALITY
GRADED TO MINIMUM CALIPER OF 5/32-IN.**

We've Got the Buys for You!

35 million pine, spruce, fir and other conifers—growing now, ready to grade and ship—at prices you can't afford to pass up, if you're in business to make money.

Ask for Catalog When You Send in Your Order for Scotch Pines.

**Michigan's WEST SHORE NURSERY
MARKETING CO-OPERATIVE, Inc.**

96th Ave. at M-21

Zeeland, Mich.

Phone: PRespect 2-2126

LINING-OUT STOCK

	Each 100 rate	Each 1000 rate	Each 2500 rate
Berberis Crimson Pygmy, bushy			
15,000 3-yr., T., 4 to 6 ins.	\$0.40	\$0.35	\$0.32
4500 3-yr., T., 6 to 9 ins.	.45	.40	.35
1000 3-yr., T., 9 to 12 ins.	.60	.50	.45
Berberis thunbergii atropurpurea (Red Barberry)			
3000 2-yr., S., 6 to 9 ins.	.07	.06	.05
5000 2-yr., S., 9 to 12 ins.	.08	.07 1/2	.07
Buxus inglis			
500 3-yr., pot	.40	.35	..
Buxus koreana			
2000 2-yr., pot	.30	.28	.25
Forsythia Lynwood Gold			
2100 2-yr., T., 8 to 12 ins.	.20	.18	..
2600 2-yr., T., 12 to 18 ins., very bushy	.25	.22	..
Hydrangea A. G.			
700 Heavy, L. O.	.14	.13	..
Juniperus chinensis Spartan (T.M.)			
2000 Grafts	.95	.85	..
Juniperus chinensis Mountbatten			
2000 Grafts	.75	.65	..
Juniperus horizontalis plumosa (Andorra)			
450 2-yr., pot	.30	.28	..
Picea moerheimi			
150 Pot grafts	1.25	1.20	..
Pinus nigra			
500 2-yr., S., 8 to 10 ins.	.15	.12	..
Quercus robur fastigiata (Pyramidal)			
600 2-yr., S.	.45	.40	..
160 4-yr., T., 15 to 18 ins.	1.00	.75	..
125 4-yr., T., 2 to 3 ft.	1.50	..	..
Sorbus aucuparia			
605 2-yr., S., 9 to 12 ins.	.10	.07 1/2	..
500 2-yr., S., 12 to 18 ins.	.12	.10	..
Taxus cuspidata			
5500 2-yr., pot	.27	.25	.23
1000 3-yr., pot	.34	.32	..
5800 3-yr., T.	.35	.32 1/2	.30
250 5-yr., 10 to 15 ins., for potting	1.75	1.40	1.30
Taxus cuspidata capitata			
5000 2-yr., S.	.12	.10	.09
400 5-yr., T., from seed, 12 to 18 ins.	.58	.55	.53
Taxus cuspidata wardi			
200 2-yr., T.	.37 1/2	.35	..
Taxus canadensis			
12,000 2-yr., T., heavy	.45	.40	..
Taxus henryi, like densiformis			
7450 2-yr., pot	.30	.28	..
Taxus media			
1500 2-yr., pot	.30	.28	..
Taxus media andersoni			
2350 2-yr., pot	.30	.28	..
1500 3-yr., pot	.35	.32	..
Taxus media browni			
250 5-yr., TT.	1.10	1.05	..
Taxus media hicksii			
3600 2-yr., pot	.30	.28	..
1800 4-yr., TT.	.55	.50	.45
Teucrium chamaedrys			
500 2-yr., pot	.25	.22	..
Thuja occidentalis woodwardi			
1000 1-yr., pot	.22	.20	..
3600 2-yr., pot	.27 1/2	.25	..
Thuja occidentalis nigra			
1400 2-yr., bed	.35	.30	..
Viburnum dentatum, bushy			
450 2-yr., T., 15 to 18 ins.	.18	.15	..
Weigela vaniciei			
1500 1-yr., 1 1/4 to 2 ft., br.	.25	.20	.18
1000 1-yr., 1 1/4 to 2 ft., heavy br., for canning or mall order.	.35	.30	..
25 at 100 rate; 250 at 1000 rate.			



**the
cottage
gardens**

Telephones:
IV. 2-9021,
IV. 2-9276.

Nick I. W. Kriek —
Harold E. Hicks
2707 W. St. Joseph St.
Lansing 17, Mich.

Just west of city limits on U. S. 27.
(OUR 36th YEAR)

Further Notes on Crab Apple Plants

Topic Under Discussion at Recent Michigan Meeting

"Further Notes on Crab Apples" was the subject of a discussion by Arie F. den Boer, Des Moines, Ia., presented at the convention of the Michigan Association of Nurserymen, in continuance of his talk on ornamental crab apples for landscape use delivered earlier in the program. Illustrating his talk with color slides, Mr. den Boer showed the rare Tibetan crab apple with its white flowers; good, glossy foliage, and lobed leaves like those of a hawthorn. Malus toringoides, the cut-leaved crab apple, was mentioned for its attractive, apricot-rosy fruit clusters. The Scarlet Flame crab apple, with its deep pink flowers, was a pet controversy with Mr. den Boer, because he did not think that such a name should be given a crab apple which is not scarlet. Naming and advertising a plant in such a way are entirely misleading, it was Mr. den Boer's opinion.

The Plena Nova crab apple was mentioned as a plant superior to the Bechtel and Charlottae crab apples, which it resembles, because of its better shape, flowers and all-around qualities. The Kingsmere crab apple, with its deep pink flower and fruit of one and one-quarter inches, Mr. den Boer recommended as a good crab apple for jellies. The David crab apple was recommended highly for its white flowers; small red fruit, which is attractive to birds, and its weeping habit of growth.

An interesting point brought out by Mr. den Boer was the fact that the flowers of the Honan crab apple are so identical to those of Cotoneaster multiflora that it is impossible to tell them apart. This is the only similarity between the two plants.

Malus Van Eseltine Mr. den Boer mentioned as one of the better, newer crab apples. He said nurserymen should expect this plant to be somewhat upright until later years.

The illustration of the Wynema crab apple showed the plant's white flowers that will bloom every year. This tree attains a large size for a crab apple, but as it grows it is not a large plant for its age.

Mr. den Boer took time to explain that Malus atropurpurea, as introduced from England, is the same as the Eleyi and Jay Darling crab apples. After its introduction in the

New and Coming Sure-Fire Roses

BINGO

(Plant Pat. No. 1392)
A deep red hybrid tea with grandiflora tendencies. A. R. S. rating 7.5.
Suggested retail, \$2.25.
Each 1 to 9 10 to 19 20 to 99 100 to 249
\$1.40 \$1.25 \$1.125 \$1.05
Each 250 and up, 95c

PINK FRAGRANCE

(Plant Pat. No. 1493), A. R. S. 1968, 7.6.
A many-petaled pink rose with outstanding, lustrous foliage. Suggested retail, \$2.50.
Each 1 to 9 10 to 19 20 to 99 100 to 249
\$1.60 \$1.40 \$1.25 \$1.20
Each 250 and up, \$1.10

ORDER THESE ROSES FROM ANY OF THE FOLLOWING NURSERIES:

The Monroe Nursery Co.

Monroe, Mich.

The Greening Nursery Co.

Monroe, Mich.

Peterson & Dering

Scappoose, Ore.

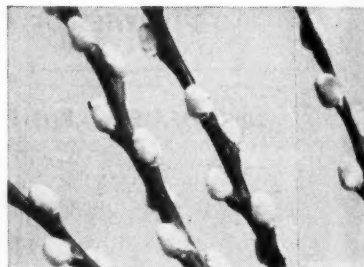
Shenandoah Nursery

Shenandoah, Ia.

Elmer Roses

6708 N. San Gabriel

San Gabriel, Calif.



PINK FRENCH PUSSY WILLOW (Salix discolor Selection)

Beautiful February-forcing strain. Catkin sheath is a rich mahogany red with attractive large silvery-pink catkins when mature.
Approximately 15,000 to 20,000 available.

Root and top pruned field liners, \$12.00 per 100; \$100.00 per 1000.
8-in. hardwood cuttings, \$20.00 per 1000
BEARDSLEE NURSERY PERRY, O.

HARDY BOXWOOD

Sempervirens strain proven hardy by complete exposure the past three winters.

3-yr., 10 to 15 ins., bushy,
\$50.00 per 100.

Write for our latest descriptive catalog.

JOSEPH F. MARTIN CO.

Box 189

Painesville, Ohio



**GOLDEN VICARY PRIVET
CALIFORNIA VARIEGATED PRIVET
LODENSE PRIVET**

Outdoor rooted cuttings.
\$8.00 per 100; \$70.00 per 1000

GILSON GARDENS

Perry, Ohio

REDMOND LINDEN

for

- OUTSTANDING BEAUTY
- COOLING SHADE
- RAPID GROWTH
- EASE OF MAINTENANCE
- HARDINESS

Truly one of America's finest shade trees. Proved by more than 30 years of careful observation under various conditions.

Write us today for illustrated folder giving complete description and history. Additional copies available for use as a selling aid.

PLUMFIELD NURSERIES

Box 471, Fremont, Neb.



Redmond Linden planted 7 years ago.

Wholesale Prices for Spring, 1960
F.O.B. Fremont, Neb.

	Per 10	Per 100
10 to 11 ft.	\$52.50	\$500.00
9 to 10 ft.	42.50	400.00
8 to 9 ft.	35.00	325.00

Terms: Per our published list.



Hardy Northern-Grown Stock at WHOLESALE

JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

United States, *M. atropurpurea* was grown in different parts of the country and slight differences in flower, fruit and shape began to show up. Continuous growing of these crab apples, which showed differences from the parent plant, showed that they would at times revert to their original characteristics. Thus, it is assumed that growing conditions were responsible for these variations rather than a generic change in the plant. In the meantime, new names were introduced, such as Eleyi and Jay Darling.

The latter part of this seminar included some slides belonging to Robert C. Simpson, Simpson Orchard Co., Vincennes, Ind. With them Mr. Simpson demonstrated some of his work in crossing several

of the crab apples in an effort to produce better color and double flowers. One such cross was between the Almey and Van Eseltine, crab apples which had a double, deep pink flower. These were produced on 1-year wood.

Mr. Simpson also showed some of the work being done with crab apples at Purdue University. One project in particular was the development of a crab apple with small, bright fruit that will hang late into the season.

ENTERING the landscape contracting business, Guy Arbouet and Gerard Marc will operate as the Home Landscaping Co., 1485 Sterling place, Brooklyn, N. Y.

1960 GARDEN MUMS

Send for
New Color Brochure

Pictures help you sell!

CUNNINGHAM GARDENS, INC.
Waldron, Ind.

GROUND COVER PLANTS

By Dr. Donald Wyman
Describes more than 200 kinds of woody plants and herbaceous perennials. Covers hardiness, planting, general maintenance, winter protection, pruning, propagation and lists of suitable plants. 175 p. (1956).....\$4.75

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.

Growing Plants in Containers

Discussed During Second Day of Recent Plant Propagators' Meeting

Reported by F. C. Galle

Talks and discussions on container growing occupied the second day's sessions at the annual meeting of the Plant Propagators Society held recently at the Sheraton hotel, Philadelphia, Pa. The business session of the meeting and talks presented during the opening day were reported in previous issues of the American Nurseryman.

The morning's program, which began the series of presentations on container growing, was moderated by Dr. L. C. Chadwick, Ohio State University, Columbus. The first paper, by Dr. John Mahlstede, Iowa State College, Ames, was on "Media for the Production of Nursery Stock in Containers."

Requires New Methods

Dr. Mahlstede said that production of canned nursery stock is much different from production in the field and is more similar to the growing of florists' crops. He stated that a good growing medium is any substratum that will produce quality plants economically; be free of disease and chemicals, and have proper pH, aeration and availability of nutrients. It should be inexpensive and uniform. He stated that a mixture of equal parts of soil, peat and turkey gravel is an excellent medium.

He does not advise overmixing the medium, as this tends to pulverize the peat moss. He also recommended adding one-half pound of superphosphate and one-half pound of dried blood to every cubic yard of soil. Dr. Mahlstede stated that, while the U.C. mix of sand and peat can be varied, the usual proportions are half and half. He mentioned, also, that peat and perlite mixtures are being tested at many institutions. Perlite is desirable for its light weight, but it is rather expensive. After speaking briefly on root damage in containers, he reported on a new approach to container growing, in which plants in polyethylene containers are placed in 6-inch drain tiles sunk into the ground. This method was described by Dr. Mahlstede in the January 1 issue of the American Nurseryman.

A panel discussion followed on the methods being used in container production. The first member of the panel was Robert deWilde, Per-

kins-deWilde Nursery, Shiloh, N. J. He stated that his firm's basis for a soil medium is sassafras and loam. The soil mixture is prepared in large volume in a 5-foot-wide strip, to which six inches of peat and six inches of sand are added. This material is mixed and shredded and then fumigated with MC₂. The pH is brought up to 6.0 with lime, and fertilizer is added if necessary. This soil then is mixed 1 to 1 with perlite, and additional peat is added for holly and other special plants.

Cuttings are potted in the winter and spring with an estimated cost of about 7 cents per 2-gallon can for soil. In closing, Mr. deWilde stated that a Taylor potting machine and conveyor belts are used for handling the containers. Aqua-Gro, a water wetting agent, is added to the soil after potting and is sometimes ap-

plied during the summer months during extreme drought.

Jack B. Hill, D. Hill Nursery Co., Dundee, Ill., stated that his firm is using the U.C. mix of 50-50 sand and peat. It is a uniform mix as compared to soil, which is too variable and requires different fertilizer and watering conditions with each mixture. The material is steam sterilized for weed and disease control. Basic fertilizers are added, and the pH is normally around 6.8.

Dr. K. W. Reisch showed many slides illustrating root restrictions when plants were kept in 1-gallon cans for two years, instead of being shifted after one year to larger containers. He stated that there is little difference in the type of medium used, but stressed the importance of having a consistent medium, so that one could continually

TEUCRIUM CHAMAEDRYS

Attractive evergreen hardy border plant for edging walks and gardens. Foliage resembles English boxwood.

WELL-ROOTED OUTDOOR CUTTINGS

\$5.00 per 100

\$45.00 per 1000

Immediate delivery or at outside planting time.

BEARDSLEE NURSERY

Perry, Ohio

PIN OAK

(Quercus palustris)

	Each
5 to 6 ft.	\$2.00
6 to 8 ft.	3.00
8 to 10 ft.	4.00
1½ to 2-in. cal.	5.50

Well-branched, well-grown trees. Could be dug B&B. Economical transportation on full truckloads anywhere. Have pool loads to many areas.

LEAVENWORTH NURSERIES

L. C. Gatewood—Betty Gatewood
12th and Vilas Leavenworth, Kan.
Phone: MU 2-6251

VIBURNUM

Rooted cuttings, 12 ins., from outdoor mist system.

	Per 100	Per 1000
Americana	\$10.00	\$80.00
Tomentosum	10.00	80.00

Send for list.

GILSON GARDENS

Perry, Ohio

OHIO'S LAKE COUNTY

One of the world's greatest nursery centers. Best soil for extensive roots. Lake Erie tempered for vigor.

Send for free membership list and map.

Names, locations and types of plants grown by over 100 members representing 4,000 acres of the very finest nursery stock. Write to:

**THE LAKE COUNTY
NURSEYMEN'S ASSN.
Box 49, MENTOR, OHIO**

Roses, Shrubs, Trees, Vines, Azaleas, Hollies, Rhododendrons, Evergreens, Fruit Trees, Perennials, Liners — Finished Stock — All Sizes.

For the finest in

NURSERY-GROWN SEEDLINGS

Write —
Forrest Keeling
Nursery
Elsherry, Mo.

Hugh Stevenson, Prop.

**MISSOURI
GROWN
IS HARDY ...**

use the same method of fertilizing and watering.

Water and Growth

In the second phase of the discussion during the morning session "Water in Relation to Plant Growth" was the topic of a paper by Dr. Paul Kramer, department of botany, Duke University, Durham, N. C. Dr. Kramer stated that water affects many physiological processes and is the chief constituent of plants. Water is important, first, as a reagent, aiding in the chemical action of plants; second, as a solvent for minerals; third, adding to the turgidity of plants, and fourth, affecting quality of growth. Dr. Kramer stated that many herbaceous plants may never completely recover after a serious wilting and he believed the same held true for woody plants. Dr. Kramer went on to describe the interrelationship of water and mineral nutrients. He stated that water deficit affects photosynthesis by closing stomata. Water deficit can be used to advantage in some cases, as it has been reported that with rubber plants increased latex content is found when the plants have been allowed to dry.

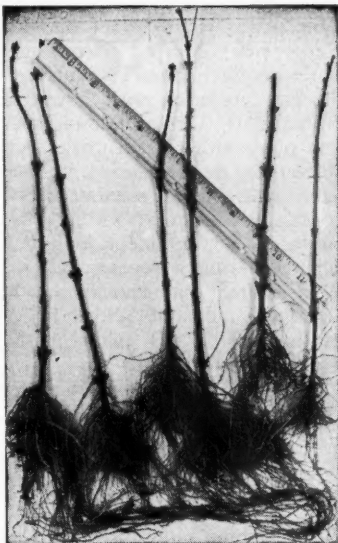
Water Balance

Water balance in the plant fluctuates, and there is competition for the water within the plant. The leaves will take water from fruit during drought conditions. One cubic foot of sand will hold $3\frac{1}{2}$ per cent of its volume in water, or approximately one quart; one cubic foot of sandy soil holds 10 per cent of its volume in water, or three quarts, and one cubic foot of clay soil will hold approximately 25 per cent of its volume in water, or seven quarts.

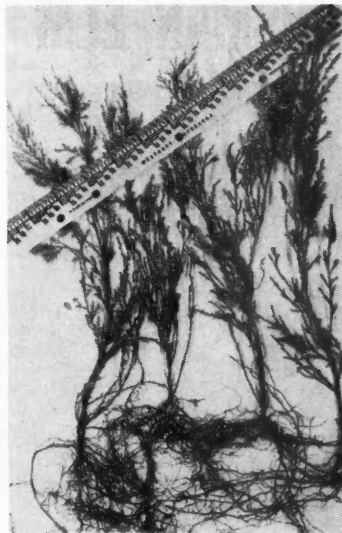
In closing, Dr. Kramer went over various methods of determining water loss and methods and materials that can be used to determine when to apply water. He stated that the measuring of water loss and calculating this loss from evaporation data have some application and that some of the mechanical methods of testing soil water stresses, such as tensiometer or soil blocks or irrigation meters, usually work well, but the initial cost is expensive. The location of these mechanical determiners is important; they must be in or near the root zone.

Panel on Water

A panel discussion followed on the watering techniques being used in the production of plants in containers, with the same panel participat-



Forsythia Spring Glory, Lynwood Gold and Beatrix Farrand



Burk Juniper



New Stock Plants

	Each
Andorra Juniper, 6 to 8 ins.	\$0.05
Burk Juniper, 6 to 10 ins. ....	.12
Blue Hetz Juniper, 6 to 10 ins. ....	.05
Pfitzer Juniper, 6 to 10 ins. ....	.06
Pfitzer Juniper, 6 to 8 ins., bands ...	.16
Euonymus patens, small or medium-leaved, 8 to 10 ins. ....	.04
Forsythia Beatrix Farrand, 6 to 12 ins. ....	.06
Forsythia Lynwood Gold, 8 to 12 ins. ....	.04
Forsythia Spring Glory, 8 to 12 ins. ....	.04
Euonymus coloratus, 8 to 10 ins. ....	.04
Pyracantha Kasan, 5 to 8 ins. ....	.05
Pyracantha lalandi, 5 to 8 ins. ....	.05

Less than 300, total order,
2c more per plant.

Less than 50 of any item,
4c more per plant.

Shipment now or book your order
for spring.

See classified under lining-out stock
for other items.

McININCH GREENHOUSES

St. Joseph, Mo.

LARGE SUGAR MAPLES

6 to 9-in. cal., B&B, transplanted,
nursery-grown

At the junction of Routes 17 and 78,
in Stark County.

Central Illinois Pioneer Nursery Since 1887



C. B. INDELS & SONS
LAFAYETTE, ILLINOIS



NORTHERN-GROWN EVERGREENS

Seedlings and Transplants

Ask for price list.

See our list in classified section.

C. WILSON'S NURSERY
Pembine, Wis.

PIN OAK SEEDLINGS

Per 100 Per 1000

6 to 12 ins. \$ 6.00 \$ 55.00
12 to 18 ins. 8.00 75.00
18 to 24 ins. 12.00 100.00

LEAVENWORTH NURSERIES

12th and Vilas Leavenworth, Kan.

BUISMAN ELM



The Coming Shade Tree

Extremely resistant to Dutch elm disease and phloem necrosis. Introduced by the U. S. D. A.

Now being widely planted by park districts, municipalities and subdivisions.

A beautiful tree with straight trunk of heavy caliper, no crotches. Great masses of dark green foliage. Grows rapidly. Not a hybrid, but a true species.

	Each Per 10	Each Per 100
8 to 10 ft.	\$4.50	\$4.00
6 to 8 ft.	3.20	3.00
4 to 5 ft.	1.85	1.75

30 or more trees at 100 rate.

THE WILLIS NURSERY CO.

Your Wholesale Nurseryman
Ottawa, Kan.

ing as previously. Mr. deWilde stated that the location of their containers was under trees and that plants were grouped according to water requirements. The surface of the can nurseries must have good drainage. He uses aluminum irrigation pipe, with rotary nozzles every 30 feet, for most watering, but some hand watering is necessary. Some porcelain moisture-resisting blocks are used in containers to indicate when watering is necessary. Mr. de Wilde stated that some plants can be used as indicators and that pyracanthas are the first plants to show water need at his nursery.

Jack Hill declared that uniformity of water application is essential and he prefers use of moving rotary sprinklers. Approximately three-fourths inch of water is distributed with each application, to obtain some leaching out of the cans and avoid a build-up of soluble salts.

Dr. John Mahlstede stated that although there are many mechanical methods being used, manual watering is still the best assurance.

Dr. Reisch stated that subirrigation is being used in some areas for can culture. Cans are placed on plastic-enclosed beds. The plan is reported to be satisfactory, but it can be a factor in spreading disease. A moving rotary sprinkler, the same type as that used by the D. Hill Nursery Co., is being utilized.

Diagnosing Disorders

The afternoon session continued the discussion on container culture and was started by a paper on the "Usefulness of Various Diagnostic Methods in Determining Nutritional Disorders," by Dr. A. L. Kenworthy, department of horticulture, Michigan State University, East Lansing, Mich. Dr. Kenworthy stated that often one looks to nutrition needs as a last resort, rather than looking for them first.

Various tools used in diagnosing the conditions were discussed; soil and tissue tests, leaf analysis and deficiency symptoms after the reduction of the various elements were described. Dr. Kenworthy stated that each of these methods has advantages and disadvantages. Symptoms are easy to recognize if there is only one deficiency, but if there are more than one, the lack may be difficult to determine. Not all of the deficiency symptoms are known, and they vary according to conditions.

It is important to recognize deficiency symptoms as differing from insect and disease damage. Soil tests are best for annual and bien-

GENUINE AMUR RIVER NORTH PRIVET

1-yr., 9 to 18 ins., 2 canes or more, cut back twice, \$4.00 per 100; \$35.00 per 1000. 300 or more at 1000 rate. This is the best privet we have ever grown.

Free packing on all orders of 10,000 or more, others at cost.

LOMBARDY POPLAR

	Each Per 25	Each Per 1000
3-yr., heavy, br.		
6 to 8 ft.	\$0.75	\$0.60
8 to 10 ft.	1.10	1.00
10 to 12 ft.	1.50	1.00
2-yr., 4 to 5 ft. . . . .	.50	.35
5 to 6 ft. . . . .	.60	.40

	Per 100
1-yr., 2 to 3 ft.	\$ 7.50
3 to 4 ft.	10.00
4 to 5 ft.	12.00
5 to 6 ft.	15.00

Packing at cost.

PAUL'S NURSERY

R. F. D. 3

Shelby, Ohio



250,000

NORWAY SPRUCE

(Special Grade)

5 to 10 ins., \$25.00 per 1000

100,000

DOUGLAS FIR

(Special Grade)

5 to 10 ins., \$35.00 per 1000

VANS PINES

West Olive, Mich.

Scarff's Nursery

FRUITS
ORNAMENTALS
LINING-OUT STOCK

Send for Complete Trade List.
NEW CARLISLE, O.

SWEETHEART IVY

(Hedera Helix 238th St.)

Lovely heart-shaped leaves on sturdy stems. Extremely hardy. Per 100
Rooted cuttings \$15.00
2 1/2-in. pot plants 25.00

GILSON GARDENS,
Perry, Ohio

VARIEGATED WEIGELA CUTTINGS

Weigela variegata nana

Mature shrubs make attractive container stock for sales lots. Heavy, outdoor frame grown. Completely dormant. \$12.00 per 100 \$100.00 per 1000

BEARDSLEE NURSERY **PERRY, O.**

nial crops, but are not too good for woody plants. Such tests are inexpensive, but limited in coverage. There is a lack of standardization among methods used by various institutions at the present.

Leaf or plant analysis was suggested by the speaker as being the best tool for diagnosing deficiencies in woody crops. Spectrographic analysis, one of the new approaches, is a fast method and shows promise for the future. In using field trials, one must confirm results obtained by the use of controls, or checks. In conclusion, Dr. Kenworthy stated that one should make full use of all methods, combining them to get better results than can be obtained by one method. He asked nurserymen to encourage and support their local research station.

Nutrient Deficiencies

Dr. Richard H. Zimmerman, department of horticulture, Rutgers University, New Brunswick, N. J. gave a slide talk on "Visual Symptoms of Plant Nutrient Deficiencies." It was said that a deficiency may be quite advanced before symptoms appear, often too late for correction. He showed the various types of chlorosis, necrotic die-back, leaf drop, death of terminal buds and other symptoms on many ornamental plants and also with tomato. He noted the problems met when trying to determine more than one fault; overlapping of the visual symptoms makes the investigator's task difficult.

In the panel discussion that followed, Mr. deWilde stated that he takes soil samples in May. Effort is made to maintain the pH near 6. Fertilizing is carried on through the summer until the end of August, and in fall an application of Uramite is made.

Jack Hill said that with the U.C. system there is no microelement problem. Feeding is done lightly but often through the irrigation system. Plant food is applied every third irrigation. Three basic types of fertilizer are used—20-10-5, 20-0-30 and 40-10-15. Which formula is used is based on soil tests.

Dr. Reisch stated that the fertilizer requirement depends on many factors—the medium, rainfall, techniques, etc. Fertilizing is now done more frequently than when can culture was started. Dr. Mahlstede said a systematic fertilizer program is followed at Ames. A Spurway soil test is used.

Some of the questions asked the panel regarding organic fertilizers brought out the facts that they are

SPRING, 1960

A few items in quantity.

Biota aurea nana
Juniper, canaerti
Juniper, glauca
Juniper, keteleeri
Juniper, Pfitzer, extra good
Juniper, Pfitzer, blue
Juniper, stricta
Taxus cuspidata
Euonymus erectus
Ash, European Mountain
Cornus florida
Cornus rubra
Elm, Chinese
Crab Apple, Flowering
Locust, Honey
Magnolia stellata
Maple, Norway
Maple, Columnar
Maple, rubrum
Maple, schwedleri
Maple, Silver
Maple, Sugar

Oak, Pin
Prunus Newport
Prunus Thundercloud
Redbud
Sweet Gum, TT., once root-pruned
Tulip Tree
Willow, Thurlow
Almond, Pink
Currant, Alpine
Barberry, Green
Barberry, Red
Barberry, mentorensis
Cotoneaster divaricata
Forsythia
Honeysuckle Bush
Philadelphus grandiflora
Philadelphus Virginal
Privet, Golden
Privet, Regel's
Privet, Amur North, heavy
Spiraea vanhouttei
Viburnum dentatum

All kinds of fruit trees, 1 and 2-yr.

C. M. HOBBS & SONS, INC.

Bridgeport, Ind.

Phone: Indianapolis, CHapel 4-1812

Terrace 9-4952

Growers of Heavy Landscape Material

Shrubs

Evergreens

Shade Trees

Write for List

BORK NURSERY

Onarga, Ill.

Phone: AM 8-7267

REMEMBER SHERMAN'S for . . .

Alpine Currant
Hydrangea P. G.
French Lilacs
Snowball
Shade Trees
Evergreens
Phlox
Peonies
Plum Seedlings
Lining-out Stock

Let us quote you on your requirements.

SHERMAN NURSERY CO.

CHARLES CITY, IA.

VIBURNUM CARLESI

Bushy, 5-yr., 18 to 24-in. plants,
\$65.00 per 100. Ideal for canning or
growing on.

Finished Viburnum carlesii in all
grades through 3½ ft. available.

WYOMING NURSERIES

C. E. KERN

34 Vermont Ave.
CINCINNATI 15, O.

NORTHERN-GROWN STOCK

Evergreen Liners

Ornamental Shrubs

Fruit Trees

French Lilacs

Shade and Ornamental Trees

Philadelphus Minnesota Snowflake
(Plant Patent No. 538).

Send for complete list.

J. V. BAILEY NURSERIES

1325 Bailey Rd. St. Paul 6, Minn.



EVERGREENS

Growers of Quality Evergreens
Lining-out Stock a Specialty

Write for Trade List

EVERGREEN NURSERY CO.

Established 1864 • STURGEON BAY, WIS.

VICARY PRIVET

Lovely golden-leaved variety. Extremely adapt-
able for a striking border. Retains full golden
color from spring to fall. Beautiful for rose bed
borders. Should have full sun.

Liners in 2-in. pots . . . \$2.00 Per 100 Per 1000
Rooted cuttings, 100, \$10.00; 1000, \$80.00.

BEARDSLEE NURSERY

PERRY, O.

MARSHALL NURSERIES

Arlington, Neb.

Phone: 25

SHADE TREES

Ash, Green	Per 10	Per 100
30 1 1/2 to 1 1/2-in. cal.	\$32.50	\$300.00
30 1 1/2 to 1 1/2-in. cal.	40.00	350.00
Ash, Marshall, seedless		
100 6 to 8 ft.	22.50	200.00
50 8 to 10 ft.	30.00	275.00
Elm, English (Ulmus campestris)		
60 8 to 10 ft.	22.00	200.00
90 1 1/2 to 1 1/2-in. cal.	30.00	275.00
100 1 1/2 to 1 1/2-in. cal.	37.50	350.00
80 1 1/2 to 2-in. cal.	50.00	475.00
Elm, Hybrid		
50 1 1/2 to 2-in. cal.	65.00	625.00
50 2 to 2 1/2-in. cal.	75.00	700.00
Elm, Vase		
100 1 1/2 to 1 1/2-in. cal.	37.50	350.00
80 1 1/2 to 2-in. cal.	50.00	475.00
100 2 to 2 1/2-in. cal.	65.00	600.00
Hackberry		
100 5 to 6 ft.	12.00	110.00
200 6 to 8 ft.	22.00	200.00
Locust, Moraine		
50 8 to 10 ft., br.	40.00	445.00
Linden, Redmond		
50 8 to 10 ft.	35.00	325.00
Maple, Norway Columnar		
60 6 to 8 ft.	32.50	300.00
20 1 1/2 to 1 1/2-in. cal.	42.50	40.00
Oak, Pin		
100 5 to 6 ft.	22.00	200.00
100 6 to 8 ft.	33.00	300.00

SHRUBS

Cherry, Manchur		
450 4 to 5 ft.	7.50	70.00
300 3 to 4 ft.	6.00	55.00
Forsythia Lynwood Gold		
50 4 to 5 ft.	8.50	80.00
300 3 to 4 ft.	7.50	70.00
300 2 to 3 ft.	6.00	55.00
Forsythia Spring Glory		
100 4 to 5 ft.	8.50	80.00
400 3 to 4 ft.	7.50	70.00
350 2 to 3 ft.	6.00	55.00
Honeysuckle, Bride		
(grandiflora rosea)		
500 4 to 5 ft.	7.00	65.00
600 3 to 4 ft.	6.00	55.00
300 2 to 3 ft.	5.00	45.00
Honeysuckle, nana compacta		
(Clavey's)		
200 2 1/2 to 3 ft.	5.50	50.00
200 2 to 2 1/2 ft.	5.00	45.00
Honeysuckle, Zabel		
250 4 to 5 ft.	7.00	65.00
700 3 to 4 ft.	6.00	55.00
300 2 to 3 ft.	5.00	45.00
Lilac, Chinese Red		
200 3 to 4 ft.	7.00	65.00
400 2 to 3 ft.	6.00	55.00
Mock Orange, virginialis		
100 2 to 3 ft.	6.00	55.00
250 18 to 24 ins.	5.00	45.00
150 12 to 18 ins.	3.20	28.00
Viburnum, Arrowwood		
250 18 to 24 ins., heavy	5.00	45.00
290 18 to 24 ins.	4.50	40.00

FLOWERING CRAB APPLES

Zumi Calocarpa	Per 10	Per 100
150 4 to 5 ft.	\$14.00	\$125.00
180 3 to 4 ft.	10.00	90.00
Hopa		
100 5 to 6 ft.	13.00	120.00
200 4 to 5 ft.	10.00	90.00
160 3 to 4 ft.	7.50	70.00

SEEDLINGS

Cotoneaster	Per 100	Per 1000
5000 6 to 9 ins.	\$ 5.00	\$ 55.00
Oak, Pin		
375 3 to 4 ft.	35.00	300.00
1000 2 to 3 ft.	22.50	200.00
1000 18 to 24 ins.	14.00	120.00
1000 12 to 18 ins.	9.00	80.00
Rosa multiflora		
1000 1/2-in. cal. and up	5.00	45.00
6000 No. 1, 3/16-in. cal.	4.00	35.00
5000 No. 2, 2/16 to 3/16-in. cal.	3.50	30.00

expensive, compared to inorganic fertilizers, and that it is important to have both types. It was also brought out that fertilization in cans can be carried on until late into the autumn.

Dr. Kenneth Reisch carried on the last phase of the afternoon session with a discussion of "Hardiness and Winter Protection of Canned Nursery Stock." He stated that moisture is the limiting factor and that many of the hemlocks, yews and broad-leaved evergreens are damaged by wind. Ice between the plant tissue cells is not damaging, but any sudden drop in temperature that forms ice within plant cells can be damaging.

Test Mulches

Dr. Reisch stated that mulching with corncocks, sawdust, gravel and straw had been tested as protection against temperature changes. Polyethylene placed beneath the cans aids in cleaning up the winter mulching materials. He stated that, with the use of corncocks, the high moisture content resulted in some damage on arborvitae.

Polyethylene tents seem promising as protective plant covers, though some unfavorable results have been noted. In some cases, stacking the plants several cans deep eliminated wind damage. Dr. Reisch's color slides showed many of these tests on winter protection and the results obtained.

During the subsequent panel discussion, Robert deWilde recommended placing container plants close together during the winter. At his nursery, canned stock is fertilized with Uramite in the fall, mulched heavily with chopped marsh hay and surrounded with snow fencing. In addition to natural protection overhead from large trees, the stock receives an application of Wilt-Pruf. As a test, this winter, Mr. deWilde is using polyethylene tents and reed mats. Jack Hill reported that his firm also places container-grown stock close together and uses snow fencing and paper around the edges to give as much protection as possible.

Question Box

Friday evening was devoted to the plant propagation question box, and the moderator was James Wells, Red Bank, N. J. A traditional highlight of the plant propagators' meeting, the session this year lasted for over two and one-half hours, with numerous questions on hormones, mist versus non-mist, polyethylene propagation of various plants, grafting and

THE

Moraine® Locust

a proven profit-maker

Guaranteed seedless and thornless, the Moraine Locust is virtually complaint-free. Many nurserymen consider it their most profitable single plant.

ONE-YEAR TOP, 3-year ROOT,
Once Transplanted:

	10 to 49	50 to 249	250 or more
5 to 6 ft., whips	\$2.25	\$2.00	\$1.80
5 to 6 ft., br.	2.75	2.50	2.25
6 to 7 ft., whips	2.75	2.50	2.25
6 to 7 ft., br.	3.35	3.00	2.70
7 to 8 ft., whips	3.35	3.00	2.70
7 to 8 ft., br.	4.00	3.60	3.25

LARGER SIZES AVAILABLE — Prices on Request

Siebenthaler's

3001 Catalpa Dr.
Dayton 5, Ohio

TAXUS CUSPIDATA

(Spreading Yew)

Strong cuttings, heavily rooted.

THUJA PYRAMIDALIS

(Pyramidal Arborvitae)

Rooted cuttings. 6 to 8 ins.,
\$75.00 per 1000; \$40.00 per 500.

Cash with order, please.

Shipped to your door free.

50 Years of Growing Fine Plants

THE TEPPER NURSERY CO.

3871 Remembrance Rd.
Grand Rapids, Mich.

FORSYTHIA

12 ins., outdoor rooted cuttings.

	Per 100	Per 1000
Beatrix Farrand	\$15.00	\$125.00
Lynwood Gold	10.00	80.00
Spring Glory	10.00	80.00

GILSON GARDENS

Perry, Ohio

HARDY ENGLISH IVY

(Hedera helix)

Rooted cuttings for landscape planting.
\$7.50 per 100; \$65.00 per 1000

BEARDSLEE NURSERY

Perry, Ohio

other phases of propagation not specifically covered during the regular sessions of the meeting.

Various members participated in answering many of the questions, describing procedures of their own pertinent to the problems raised. Time was allotted for showing of slides on different phases of propagation and also on newer plant materials.

A dinner meeting was held by members of the organization who are also members of the American Association of Botanic Gardens and Arboretums. More than 20 persons attended the dinner, which has become an annual event at the plant propagators' meeting.

A summary of talks presented during the final day of the meeting will appear in a later issue of the American Nurseryman.

JOIN STERLING STAFF

Three additions to the Sterling Forest Gardens staff of horticulturists were announced recently by Robert W. Dowling, president of the Sterling Forest Gardens Corp. and City Investing Co. The new appointments were Charles A. Lewis as chief horticultural supervisor, Martin Flayter as supervisor of landscaping and maintenance and Paul F. Frese as director of public information and education.

Sterling Forest Gardens are being prepared for the spring opening on a 125-acre tract near Tuxedo as part of Sterling Forest, a 30-square-mile area that is being developed as a unique scientific, cultural and residential community.

Charles A. Lewis was awarded the Alex Laurie award in 1954 for his research work in establishing the basic factors controlling growth and flowering in tuberous-rooted begonias. He has done research on snapdragons and chrysanthemums for Yoder Bros., Barberton, O.

Martin F. Flayter has designed many of the prominent estates and public parks in Rockland and Orange counties. He was associated with the New York state department of agriculture and markets for 24 years as a horticulturist in the division of plant industry.

Paul F. Frese was lately publications editor at the Brooklyn Botanic Gardens. He was editor of Flower Grower magazine from 1938 to 1949.

STARTING in the nursery business is Jim D. Collins, owner of the Green Leaf Nursery, Route 6, Glasgow, Ky.

SPECIALS

Connell's Red Apple, New (Plant Patent No. 1602), 7/8-in. cal. grade only, \$1.60 each

Latham Raspberries	Per 100	Per 1000
1/4-in. cal. and up, strong	\$7.00	\$68.00
No. 1, 3/16-in. cal. strong	6.00	58.00
No. 2	4.50	40.00

Willow, Corkscrew (<i>Salix matsudana tortuosa</i>)	Per 10	Per 100
6 to 8 ft.	\$12.50	\$110.00
5 to 6 ft.	10.00	85.00

Cotoneaster acutifolia	Per 100	Per 1000
3 to 4 ft.	\$50.00	\$420.00
2 to 3 ft.	40.00	300.00
18 to 24 ins.	30.00	220.00

Cotoneaster acutifolia, hedging, T.		
2 to 3 ft.	30.00	250.00
18 to 24 ins.	20.00	180.00

Philadelphus virginialis		
2 to 3 ft.	45.00	400.00

Rosa rugosa Hansa		
2 to 3 ft.	55.00	.....
18 to 24 ins.	50.00	.....

SUMMIT NURSERIES, INC.
Stillwater, Minn.

King-Size Outdoor-Rooted Cuttings BEATRIX FARRAND

Forsythia

ARNOLD ARBORETUM INTRODUCTION

Brand-new beauty with golden florets often 2 ins. across — orange throat. This stock is propagated outdoors and may be lined out directly into the field. Get this new beautiful flowering shrub to please your customers.

\$15.00 per 100

\$135.00 per 1000

BEARDSLEE NURSERY

Perry, Ohio

Peach
Hydrangea P. G.
Hydrangea P. G. (Tree Form)
Ornamental Trees
Grapevines, 1-yr. and 2-yr.

Thorne Browster

WILLOWBEND NURSERY
PERRY, O.

EUONYMUS

Outdoor rooted cuttings.

	Per 100	Per 1000
Alatus compactus	\$15.00	\$130.00
Coloratus	10.00	80.00
Silver Edge	15.00	130.00
Vegetus	10.00	80.00

GILSON GARDENS
Perry, Ohio

TAXUS CAPITATA

Well-shaped plants,
root-pruned,
Beetle free.

Sizes, 4 to 5 ft.

Prices on Request

SHAW-BALTIC NURSERY

9650 Carnegie Ave.
Cleveland, Ohio



POT-GROWN

Ready In

ILEX OPACA EAST PALATKA

A hardy, vigorous-growing holly with very striking foliage and brilliant, bright red berries in the fall. Excellent holly in all respects.

2 1/4" pot — .20

Zone 5

ILEX AQUIPERNYI BRILLIANT

Truly a superb holly — its captivating dark green foliage having a reddish cast on its new growth, makes a delightful setting for its brilliant red "self-fertile" berries that are produced in profusion.

2 1/4" pot .25 — 3" pot .40

Zone 5

ILEX OPACA MRS. SARVER

Superior type, cutting grown to insure its outstanding qualities. Bright red berries in abundance, luxurious dark green leaves, appealing, vigorous habit of growth. Unexcelled wherever planted.

2 1/4" pot — .20

Zone 7

We Share Your Shipping Costs

Distance no longer a penalty—no matter where you live we share shipping costs with savings up to 50% and more. Packed free! No other charges to pay — your share of shipping costs appear on one bill. At these low rates liners, laid down your nursery — via our choice of carrier.

WEST OF THE MISSISSIPPI

(Including Minnesota and Louisiana)

2 1/4" pot — 1c

2 1/2" rose pot and 3" pot — 2c

EAST OF THE MISSISSIPPI

2 1/4" pot — 2c

2 1/2" rose pot and 3" pot — 4c

QUANTITY DISCOUNT

1000 plants... 10% • 500 plants.

These discounts apply if the following requirements are met.

1. All plants must be of one variety.
2. All plants must be of one container.
3. All plants must be shipped at one time.

ILEX OPACA

Shipped le
remain of gro
win eve
Light requir
units fin
+ .2

ILEX OPACA

Impact
foliage
leaves, H
habit
" pot

ON HOLLY LINERS

Immediate Delivery

ILICIA DWARF PON

Shiny leaves and
remain of growth make this
very in every planting.
Light requires very little
gives fine qualities.

2 1/4" pot — .20

Zone 7

ILEX AQUIFOLIUM FERTILIS

Its striking dark green foliage creates
a delightful setting for the abundance of
bright red berries produced by this
exceptional self-fertile holly. Pleasing
upright habit of growth.

2 1/4" pot — .22

Zone 6

ILICIA ROTUNDIFOLIA

Compact growing holly with
dark foliage. Excellent holly
leaves. Has a very appealing
habit of growth.

2 1/4" pot — .18

Zone 5

ILEX CORNUTA AZUSA

A specially selected strain, "cutting
grown" to insure you an abundance of
bright red berries, very attractive dark
green leaves, combined with a showy
compact habit of growth.

2 1/4" pot — .20

Zone 6

ILEX CRENATA GREEN THUMB

A low-spreading, compact, self-
branching holly. Has very appealing
light, bright green leaves. Excellent
for borders, specimens and tubs.

2 1/4" pot — .25

Zone 7

* Number following description refers to mini-
mum temperature "Hardiness Guide." See
Pages 40 and 41 of your MN general catalog.



MONROVIA NURSERY CO.

P.O. BOX Q, AZUSA, CALIFORNIA

PLANT NOTES HERE AND THERE

By C. W. Wood

Penstemon Pinifolius

Penstemon pinifolius is a large plant made up of countless, leafy stems (there is no basal foliage) to a height of four or five inches, the leaves resembling those of a fir, hence the specific name, *pinifolius*, I suppose. The leaves are evergreen, making the plant a lovely garden ornament. Although I hear the plant is a prolific bloomer in some sections, it has not flowered well in northern Michigan (last summer a clump a foot across must not have had more than a half-dozen flowering stems during the entire blooming season). If it were universally a good bloomer, it would be one of the better small beardtongues. Local conditions may have been responsible for its sparse blooming here; I am continuing to test the plant. It has been given my ordinary sandy, alfalfa soil in full sun.

When I first found *P. pinifolius*, I had no idea that its home in northern Mexico and the adjacent United States would yield a plant that would be hardy in northern Michigan. But hardy it has been, never losing a leaf in its three years here. The bright scarlet, tubular flowers are borne in a few-flowered raceme on stems to six inches in height. If one has the conditions to make it bloom well, it should be a good seller—a long-lived, easily satisfied *penstemon* of more than passing beauty.

Anemone Narcissiflora

An eastern reader who is developing an interest in windflowers asks about *Anemone narcissiflora*, stating that he has read that it is difficult to grow. Nothing could be further from the truth, if its behavior here in Michigan is a basis for judgment. I seem to remember, though, that I have read or heard that it is an indifferent grower; so it appears necessary for me to go into the subject, giving first its record in my own trials. Despite what Farrer said, it did better, or so at least it appeared to me, when it had some lime in its diet. That may have been because of the local conditions from whence my stock came, but it is the impression I received from the experiments. It seemed quite indifferent to exposure, doing well in sun or part shade so long as it did not fry in the heat. I find one entry in my

notes that "it needs cool conditions," meaning, I suppose, that it would be better to provide some shade in hot climates. I doubt, however, that the above-mentioned correspondent will find it difficult to grow.

The variability of the plant might be confusing. It is widespread through Asia, Europe and western North America, having crossed from Asia into Alaska and traveled as far south as Colorado. During that long journey it has varied into several forms, some of which have been given specific names by botanists. Included is the Rocky mountain form, which some western botanists have split off from the parent because of leaf formation and inflorescence, calling it *A. zephyra*. There are many varietal,

or sometimes specific, names appearing in Old World literature on the subject; these varieties are seldom available.

As it grew in my trials, *A. narcissiflora* reached a height of a foot to 15 inches, elongating somewhat in fruit. In view of that experience, it was rather disconcerting to read in E. H. Ball's "Plant Collecting in Turkey and Asia" that "in late June we crossed fields of the anemone through which we wandered waist deep to reach the slopes above." In the form generally available in commerce, it produces upward of eight or 10 quite large (to an inch or so across) white flowers, usually flushed pink on the reverse. One does not always find this floriferousness, how-

FINISHED LANDSCAPE AND GARDEN STORE MATERIAL

500 *Acer Rubrum*, 1¾ to 2-in. cal.
300 *Acer dasycarpum*, 1¾ to 2-in. cal.
200 *American Sycamore*, 1¾ to 2-in. cal.
500 *Juniper, virginiana canaerti*, 4 to 4½ ft.

400 *Juniper, virginiana keteleeri*, 4 to 4½ ft.
500 *Juniper, virginiana burki*, 4 to 4½ ft.
500 *Juniper, chinensis mas*, 4 to 4½ ft.

CASSINELLI'S GLENDALE NURSERIES, INC.

(Cincinnati)

Glendale, Hamilton Co., Ohio

LOOK AHEAD

Grow these select specialties in any quantity and be assured of a 100 per cent sellout.

Per 100
Daphne eneorum, 2-in. pots \$25.00
Vicary Privet, 2-in. pots 18.00
Dwarf Wintergreen Privet,
2-in. pots 25.00
Erica carnea, 2-in. pots 20.00
Rhododendron Hybrid Seedlings, T.T., 6 to 8 ins. 25.00
These and others in our new catalog.

JOSEPH F. MARTIN CO.

Box 180 Painesville, Ohio

PEACOCK NURSERIES

Evergreens Shade Trees
Shrubs Peonies

WHOLESALE GROWERS

Write for price list.
721 S. Cleveland-Massillon Rd., AKRON, O.

ENGLISH IVY

Per 100 Per 1000
Rooted cuttings \$ 6.50 \$ 55.00
2¼-in. pots 15.00 135.00

Send for list.

GILSON GARDENS

Perry, Ohio

COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.

ONARGA, ILL.

Seedlings and Transplants

NEWPORT NURSERY CO.

Newport, Mich.



TAXUS

Send for complete price list now ready.

EAGLE CREEK NURSERY CO.
New Augusta, Ind.

唐人路

SALIX MATSUDANA TORTUOSA (Chinese Corkscrew Tree)

4 to 5 ft., \$2.50 per each; \$25.00 per dozen; 6 to 8 ft., \$3.50 per each; \$35.00 per dozen.
Heavy field liners, \$30.00 per 100; \$250.00 per 1000. Pot plant liners (spring only), \$30.00 per 100; \$250.00 per 1000.

BEARDSLEE NURSERY

Perry, Ohio

ever, and the Rocky mountain form generally has only one flower to each stem. The leafage is highly variable, though it can be counted upon to add beauty to the whole picture, be the lobes deeply or thinly cut. It should be grown from seeds planted outdoors or frozen. It should be added that the plant may disappear between fall and spring if the soil is heavy and the drainage not good.

Alpine Forget-Me-Not

A Wisconsin reader wants to know what is meant by an "alpine" forget-me-not, and how it differs from other forget-me-nots.

Strictly speaking, the alpine forget-me-not should be *Myosotis rupicola*, a name which modern botanists do not recognize at all. If one refers to "Hortus" one will find that Bailey gives this name as a synonym of *M. alpestris*, which, he says, is not known to be in cultivation. That, for me, leaves the forget-me-not situation in a state of confusion, especially when *M. sylvatica* is made the starting point of all modern garden forget-me-nots. Speaking from the garden standpoint, Farrer's treatment of the subject seems much more logical, and it is his word that I follow in my own work. And my interpretation of his reasoning may be stated in simple terms as follows:

If one starts at the bottom of a European mountain, one will find the plant which the botanists call *M. sylvatica*, a plant of short duration (annual or biennial), growing up to two feet in height. If one goes up higher, one will find *M. alpestris*, of shorter stature than *M. sylvatica*, frequenting stream sides and damp meadows (apparently this is the source of the myriad garden forms now so popular with gardeners). Then, quoting Farrer, one will find that *M. alpestris* ascends "the Alps of central Europe to the point at which it is succeeded by *M. rupicola*." This plant Farrer describes as follows:

"*M. rupicola* is the queen of all alpine forget-me-nots, making tidy cushions over the upper alpine turf,

Quality Nursery Stock For Over 54 Years

Two Generations of Nurserymen

KALLAY BROS. CO., INC.
Painesville, Ohio

Send for current price list.

Trees, Flowering Shrubs, Taxus, Evergreens

Cole's Nationally Advertised



MORE SALES... MORE PROFITS

Your customers are reading about SUNBURST in the magazines above. Make sure of your share of the business created by this sales-producing campaign. Order your supply now. Get complete information on all sizes and prices of fast-selling SUNBURST in our Trade List of 360 varieties of high quality nursery stock from Ohio's Largest Wholesale Nursery.

THE COLE NURSERY Co., Painesville, Ohio



AZALEAS

	Each	Each
	Per 10	Per 100
MOLLIS (Chinese Azalea)		
12 to 15 ins., B&B, with flower buds	\$1.60	\$1.50
15 to 18 ins., B&B, with flower buds	1.85	1.75

Write for complete price list.

KINGWOOD NURSERIES

MENTOR, O.

TREES FOR AMERICAN GARDENS, by Donald Wyman. 745 recommended trees, 1600 species and varieties. **\$8.00.** American Nurseryman, Chicago 4, Ill.

ROCHESTER IVY

Truly beautiful, compact and hardy.

	Per 100
Rooted cuttings	\$12.00
2 1/4-in. pot plants	20.00

Send for list.

GILSON GARDENS
Perry, O.

DUGAN'S CHOICE NURSERY-GROWN PLANTS!

See page 73, February 15, 1960, issue of American Nurseryman, for complete list or write.

DUGAN NURSERIES, INC.
Center St. Perry, Ohio

CHOICE LINING - OUT STOCK

For Spring, 1960

Potted and Transplanted Stock under
Frames

25 at 100 rate; 250 at 1000 rate.			
	Each Per 100	Each Per 1000	
Arborvitae Woodward Globe			
8 to 10 ins., 2-yr., pots ..	\$0.20	\$0.17½	
Buxus angustifolia			
4 to 6 ins., 2-yr., 2¼-in. pots ..	.25	.22½	
Buxus, Korean			
4 to 6 ins., 2-yr., 2-in. pots ..	.25	.22½	
6 to 8 ins., 3-yr., 2-in. pots ..	.35	.30	
Buxus sempervirens			
4 to 6 ins., 2-yr., 2¼-in. pots ..	.22½	.20	
6 to 8 ins., 3-yr., 2¼-in. pots ..	.25	.22½	
8 to 10 ins., 4-yr., pots ..	.27½	.25	
Buxus fastigiata			
6 to 8 ins., 3-yr., 3-in. pots ..	.65	...	
Euonymus Sarcocoe			
4 to 6 ins., 1-yr., 2¼-in. pots ..	.25	...	
Euonymus radicans erectus			
4 to 6 ins., 1-yr., 2¼-in. pots ..	.17	.15	
6 to 8 ins., 2-yr., 2¼-in. pots ..	.20	.17½	
Juniper, hotzi			
8 to 10 ins., 2-yr., pots ..	.22½	.20	
10 to 12 ins., 4-yr., T., heavy ..	.37	.35	
Juniper, pfitzeriana			
8 to 10 ins., 3-yr., pots ..	.22½	.20	
10 to 12 ins., 4-yr., T., heavy ..	.37½	.35	
Juniper, pfitzeriana compact			
8 to 10 ins., 3-yr., T., in beds, heavy ..	.37½	.35	
Kerria japonica flora plena			
8 to 12 ins., 1-yr., pots ..	.20	.17½	
Mahonia aquifolium			
4 to 6 ins., 3-yr., 2¼-in. pots ..	.20	.17½	
6 to 8 ins., 3-yr., 2¼-in. pots ..	.22½	.20	
Taxus cuspidata, spreading type			
6 to 8 ins., 1-yr., 2¼-in. pots ..	.20	.17½	
8 to 10 ins., 2-yr., pots ..	.22½	.20	
10 to 12 ins., 4-yr., T., medium heavy ..	.45	.40	
10 to 12 ins., 4-yr., T., heavy ..	.55	.50	
Taxus media hickel (Hicks' Yew)			
8 to 10 ins., 2-yr., pots ..	.27½	.25	
10 to 12 ins., 4-yr., T., heavy ..	.55	.50	
Viburnum burkwoodii			
6 to 8 ins., 1-yr., 2¼-in. pots ..	.22½	...	
8 to 10 ins., 2-yr., pots ..	.27½	...	
Viburnum tomentosum plicatum			
8 to 10 ins., 1-yr., pots ..	.25	.22½	
10 to 12 ins., 2 yr., pots ..	.27½	.25	

Free packing cash with order; otherwise
½ deposit with order and balance C.O.D.
All shipments railway express. Write
for our complete list.

FLORAL GARDENS NURSERY

Phone: GI 6-4422 Eaton, Ohio

25 miles west of Dayton, O.

FRENCH STRAIN SCOTCH PINE SEEDLINGS

Well-rooted, 2-yr.-old, 2 to 8 ins. tall.
100, \$3.00; 1000, \$12.00; 5000, \$50.00.
Free packing, cash with order.

MELLINGER'S NURSERY
AN, North Lima, Ohio

hidden by domed and crowded heads of large flowers of the most exquisite dawn blue. Nor does it ever, even in cultivation, show any relationship to *M. alpestris*, but preserves its own tight habit, coming easily and profusely from seed ..."

My own reactions to the two plants may be quickly recorded. First, *M. rupicola* is a little more difficult to cultivate, requiring a deep, well-drained soil and more moisture. In my trials more than a quarter-century ago, it did well in a bed of half gravel and half sandy loam, with leaf mold added for nourishment and to help retain moisture, all to a depth of about 15 inches. There it did well in full sun or shade during midday.

The cultural needs of the two plants are not the only differences that are found between them. As some observer has pointed out and as I verified in my trials, *M. rupicola* "may be known from other forms by the peculiarity of its central head of buds and blossoms being conspicuously large." Instead of the 8-inch, or more, stature of the gardener's *M. alpestris*, *M. rupicola* commences to bloom when it is no more than an inch tall, and in my trials never was much more than two inches high at any time.

Musical Trio

The North Dakota experiment station apparently was in a musical mood when it named and introduced its three new garden pinks last summer. And they may well have something to sing about. The three kinds, Rondo, Allegro and Andante, should at least be hardy, having been bred and raised in the severe climate of North Dakota. All three have what plant breeders call the pistillate character, seldom possessing anthers and, therefore, rarely producing seeds. That makes for longer life of individual flowers and for more satisfaction for the gardener.

The first two introductions, Rondo and Allegro, are apparently closely related to *Dianthus latifolius*, a fact that may give them a tendency to short life, but that one cannot tell until the plants are further tested. That mystery plant, *D. latifolius*, is short-lived, and that is all one can make out of it. And why should it not be if it has *D. barbatus* and *D. chinensis* in its make-up, as the experts say? But that is another story. What we are interested in now is the fact that the two new plants are free-branching, with rather broad leaves well up the stem, each stem ending in one double flower, instead of up to six flowers, as is the

THE MEAD NURSERY

Rt. 3, Box 213

Oconomowoc, Wis.

Wholesale Growers
of Landscape Stock

French Lilacs
Flowering Crab Apples
Honey Locusts
Maples -- Willows
Euonymus Fortunei
Pfitzer Junipers

Write for List

THE 3 BEST IVIES

Per 100
Wilson's—The Hardest, R. C. ...\$15.00
Rochester—The Prettiest, R. C. ... 15.00
Sweetheart—The Most Novel, R. C. 15.00
Completely described in our latest catalog.

JOSEPH F. MARTIN CO.

Box 189 Painesville, Ohio

Variegated Baltic Ivy

Stardust Per 100
Rooted cuttings\$12.00
2¼-in. pot plants 20.00
Send for list.

GILSON GARDENS

Perry, Lake Co., Ohio

EUONYMUS ALATUS COMPACTUS

Heavy, outdoor frame grown, rooted cuttings. These cuttings are heavily rooted. Try some and see how good they are.

Single lead approximately 6 ins.,
\$12.00 per 100, \$100.00 per 1000.

BEARDSLEE NURSERY
Perry, O.

**America's Finest
ROSES • BULBS • PLANTS
and SHRUBS**

WRITE FOR LIST MENTOR, OHIO

Wayside Gardens

Please mention the American Nurseryman when writing advertisers

case i
stems
perha
Alleg
July
plants
of R
Alleg
carna
And
about
flower
inches
is som
other
and t
dante
long l
a cut
are g
Per
cultu
ment
the n
about
A vas
under
more
from

Tw
about
in ger
repl
that
their
lar in
matio
diphy
white
one o
in spr
ones
stenop
Mont
more
flower
a lig
plant
were
dull,
lovely
turn
a col
of the
I sus
to pa
the e
spring
penta
July)
summ
See
germ
clump
as so
spring
sacrif
they
Final

case in some latifolius forms. The stems grow about 10 inches tall, perhaps an inch or two taller with Allegro, and bear blooms during July and August, adding to the plants' garden usefulness. The color of Rondo is salmon pink, while Allegro is on the order of the hardy carnation, Dubonnet.

Andante's slender stems grow to about a foot tall and carry double flowers of pure white close to two inches across. The blooming period is somewhat shorter than that of the other two kinds, covering all of July and the first part of August. Andante, too, is a pistillate flower, with long life, both in the garden and as a cut flower. And its graceful stems are good for cutting.

Perhaps Mr. Hoag, of the horticultural department at the experimental station, who is responsible for the new varieties, will someday tell about the parentage of these plants. A vast number of new seedlings are under test at the station, so that more good pinks can be expected from that source.

Bishop's-Caps

Two questions recently asked about Mitella diphylla and the genus in general can be answered with one reply. All mitellas (bishop's-caps) that I know are pretty enough in their way, although none is spectacular in flower. The best, in my estimation, is the eastern species, M. diphylla, whose racemes of small white flowers on foot-tall stems is one of the joys of eastern woodlands in spring. Next in importance, of the ones I have seen, would be M. stenopetala, which came to me from Montana. It grew to 18 inches or more in height, with pretty white flowers, the 3-parted petals giving a light, feathery effect. The other plants that have been in my trials were less pleasing with their rather dull, greenish flowers, but all are lovely when the cool weather of autumn turns them to beautiful bronze, a color that is held throughout much of the winter. They can best be used, I suspect, as a ground cover in shady to partly shaded places. Although the eastern species blooms in early spring, there are western species (M. pentandra, for instance, blooming in July) to carry on the parade into summer.

Seeds sown as soon as ripe should germinate close to 100 per cent; the clumps may be divided, preferably as soon as they can be handled in spring, if one does not care about sacrificing the year's flowering, but they may also be divided in August. Finally, I suspect the plants can be

KRIEGER'S

WHOLESALE NURSERY

P. O. Box 116, Phone: HOpkins 5-5522 Bridgman, Mich.
Originators and Growers of this fine Blackberry.

TRUE TO NAME
NO STERILE
PLANTS



BUY UNDER THIS
TRADE-MARK
AND BE SAFE

Blackberry

Ebony King, new, T.	10	100	1000
No. 1, R. C.	\$3.00	\$20.00	\$150.00
	2.00	15.00	100.00

Red Raspberry

Latham, T.	100	1000
1-yr., No. 1	\$10.00	\$80.00
Durham, fall bearing, T.	8.00	65.00
1-yr., No. 1	10.00	80.00
Indian Summer, fall bear- ing, T.	8.00	65.00
1-yr., No. 1	10.50	85.00
	8.50	70.00

Red Rhubarb

Canada Red, No. 1 Division	10	100
McDonald, No. 1 Division	\$3.50	\$30.00
	3.50	30.00

Horseradish

Cuttings, 4 to 6 ins.	10	100
Whole Roots	\$1.00	\$4.50
	1.50	7.50

Gooseberries

Pixwell	10	100
3-yr., heavy	\$4.00	\$35.00
2-yr., No. 1	3.50	30.00
Houghton		
3-yr., heavy	4.00	35.00
2-yr., No. 1	3.50	30.00

Victoria Rhubarb

1 1/2 to 2 ins.	100	1000
1 to 1 1/2 ins.	\$12.50	\$100.00
3/4 to 1 in.	7.50	60.00
1/2 to 3/4 in.	6.00	45.00
	4.50	30.00

Asparagus

Washington	100	1000
3-yr., heavy	\$4.50	\$30.00
2-yr., No. 1	3.00	20.00
1-yr., No. 1	2.50	15.00

Blueberries

Rancocas, early; Rubel, midseason; Jersey, late

2-yr., 9 to 12 ins.	Each	10	100
3-yr., 12 to 18 ins.	\$0.40	\$3.50	\$32.50
4-yr., 18 to 24 ins., fruit buds ....	.55	5.00	47.50
5-yr., 24 to 36 ins., fruit buds ....	.75	7.00	67.50
	1.00	9.00	87.50

250 at 1000 rate.

Prices F.O.B. Bridgman, Mich.

Quantity prices upon request. All stock ready for immediate or future shipment.
Ask for spring wholesale list.

RHUBARB

Chipman's Canada Red

First-grade divisions. Can ship any quantity any time. Inquire for prices.

C. D. WRIGHT

Hamburg, Iowa

SEEDS

for the Nurseryman and Forester.
Write for catalog.

F. W. SCHUMACHER, HORTICULTURIST
SANDWICH, MASS.

TENNESSEE-GROWN STRAWBERRY PLANTS

Passed Double State Inspection

EARLY VARIETIES

Blakemore	Per 1000*
Empire	\$5.00
Dixieland	7.00
Dunlap	7.00
Premier	5.00
Missionary	4.00
Florida 90	5.00

LATE VARIETIES

Robinson	6.00
Tennessee Beauty	7.00
Armoro	7.00

*Prices quoted are for delivery by express collect.

All plants tied 26 to a bundle and labeled. All orders filled promptly, large or small. Fresh-dug plants or cold-storage plants. Write for prices on hundred quantities.

ROGERS' BERRY FARM

Harrison, Tenn.
Phone: FI 4-6122

Invest in Top Quality

Dwarf Fruit Trees Espalier Trained Fruit Trees

For retail sales, Malling No. II, VII and IX rootstock. Hardy, northern-grown 1-year and 2-year old trees, guaranteed free from insect pests and plant disease. Send today for wholesale prices.



HENRY LEUTHARDT ALL TREES GRAFTED
Dept. A, Port Chester, N. Y.

SEEDS

Collectors of Tree, Shrub and Wild Flower Seeds

Crude Drugs and Ornamentals

E. C. MORAN, Stanford, Mont.

NORTHERN-GROWN STOCK

Strict Grading — Well Packed
Satisfaction Guaranteed
There may be as good — None better

TRANSPLANTS

3-yr., 2			
Black Hills Spruce	Per 100	Per 1000	
12 to 15 ins.	\$30.00	\$250.00	
10 to 12 ins.	25.00	200.00	
6 to 8 ins.	15.00	120.00	
4 to 6 ins.	12.00	100.00	
Colorado Blue Spruce			
6 to 8 ins.	15.00	120.00	
4 to 6 ins.	12.00	100.00	
American Arborvitae			
12 to 15 ins.	18.00	150.00	
10 to 12 ins.	15.00	120.00	
8 to 10 ins.	10.00	80.00	
Norway Spruce			
12 to 15 ins.	18.00	150.00	
10 to 12 ins.	15.00	120.00	
6 to 10 ins.	12.00	100.00	

SEEDLINGS

3-yr.		
Scotch Pine		
6 to 10 ins.	4.00	35.00
White Spruce		
6 to 10 ins.	5.00	40.00
Douglas Fir, Snowy Mountain		
6 to 8 ins.	5.00	45.00
Platte River Red Cedar		
4 to 8 ins.	4.00	30.00

SEEDLINGS

2-yr.		
Colorado Spruce		
2 to 4 ins.	3.00	25.00
Norway Spruce		
2 to 4 ins.	3.00	20.00
4 to 6 ins.	3.50	25.00
Scotch Pine, French		
2 to 4 ins.	3.00	20.00
Austrian Pine		
2 to 4 ins.	3.50	25.00
Mugho Pine, Tyrolean		
1 1/2 to 4 ins.	3.00	25.00
White Pine		
2 to 4 ins.	3.00	25.00
Norway Pine		
2 to 4 ins.	3.00	25.00
Douglas Fir, Snowy Mountain		
2 to 4 ins.	3.00	25.00
4 to 6 ins.	4.00	30.00
American Arborvitae		
2 to 4 ins.	3.00	20.00
4 to 6 ins.	3.50	25.00

FERNS

Ostrich Plume very hardy
Part shade—part sun.
Large clumps, \$8.00 per 100

Plant 2-yr. seedlings for best transplants.

J. R. PALMER & SON
Blackduck, Minn.

Specimen Landscape Materials Our Specialty... TAXUS



W. A. NATORP CO.

4400 READING ROAD
CINCINNATI 29, OHIO

Visit our nurseries when in Cincinnati

grown from leaf cuttings, after the order of their near relative, the heuchera, by pulling the leaf and leaf-stalk away with a heel to be sure of the adventitious bud at its base. In the case of heuchera, I found that August is the best time to take leaf cuttings in my Michigan climate, wintering the rooted cuttings in a protected frame. There is good garden material here for the nurseryman who is looking for a ground cover for shady places.

Epimedium

A good friend of this column chides me about neglecting the epimediums. He reminds me that he has a clipping from a piece I had in an amateur paper several years ago in which I quoted another writer as saying that "the epimediums are the aristocrats of ground covers." I plead guilty to both accusations and reply as follows:

It is true that these plants are excellent ground covers. May I add, too, that their usefulness does not end there. In fact, I would place them in the forefront of all hardy plants. Does that make amends for an apparent neglect of so worthy a group? But there are drawbacks of culture and availability to be reckoned with.

It has been my experience through the years that names mean little in identifying epimediums. They have become so confused, in fact, that an ordinary person would find it impossible to straighten them out; so it is probably best for the ordinary person to buy on description and sight. I doubt, however, if one would ever be disappointed if he bought anything entitled to bear the name epimedium, for all that I have grown can add grace and beauty to a shady garden. They grow eight to 10 inches tall, with small, pinnate leaves held to the graceful stem like butterflies and airy flowers in dainty racemes. For me they did best in about half shade in a peaty soil, with a little more than the average amount of moisture. As seeds are seldom, if ever, available, one has to resort to divisions, a slow process, but sure if the work is done in late summer.

NEW ARCADIAN NURSERY

Latest in the chain of Arcadian Gardens retail nurseries is a self-service operation opened recently on a full acre at the Menlo Park (N. J.) shopping center. Composed of a greenhouse, lath area and air-conditioned garden and gift center, the nursery features an outdoor patio

LANDSCAPE MATERIAL Spring, 1960

White-Flowering Dogwood, single or clump form, 6 to 12 ft., well-budded, all sizes.

Flowering Crab Apples, 6 to 7 ft., 7 to 8 ft., transplanted, B&B.

Austrian Pine, specimen, 4 to 5 ft. Medium grade, 3 to 8 ft., for highway bidding sales, etc.

Euonymus alatus, 4 to 5 ft. and 5 to 6 ft.

WADE & GATTON NURSERIES

Bellville, Ohio
Phone: Butler, TU 3-3191

ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a general assortment for the best landscape plantings.

BRYANT'S NURSERIES
Princeton, Illinois

WE OFFER... Our General Line of SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

PYRACANTHA COCCINEA LALANDI
Commonly known as Firethorn. Our stock is grown from heavily fruiting stocks. Shrubs carry huge clusters of holly-like berries all winter. One of the most desirable foundation shrubs in the trade.
Liners, peat pots, \$25.00 per 100; \$225.00 per 1000.
BEARDSLEE NURSERY Perry, O.

Northern-Grown Liners
Christmas Tree Seedlings
Potted Evergreens

Send for price list.

JOHN G. ZELENSKA EVERGREEN NURSERY
Rt. 2, Grand Haven, Mich.

Concord Grape Roots
Red Raspberry
Flowering Shrubs
Boston Ivy
Currants
IVAN R. CONGDON NURSERY
North Collins, N. Y.

ORNAMENTAL CRAB APPLES,
by A. F. den Boer. 226 p., illus. (1959). \$4.95.
American Nurseryman Chicago 4, Ill.

CONTAINER-GROWN STOCK

Our container-grown nursery stock is the very best quality produced in the south. We still have a good supply of the following list. We can deliver by truck at a very economical rate on orders for 1600 to 4400 plants. Ask us. 250 or more of one variety take the 1000 rate.

	Per 100	Per 1000		Per 100	Per 1000
GARDENIA FORTUNEI. Blooms heavily in late spring and has some flowers all summer. Very popular	\$60.00	\$550.00	ILEX CRENATA MICROPHYLLA. Small foliage dwarf growing, very nice crenata	\$65.00	\$600.00
GARDENIA MYSTERY. Very good grower, larger flower than any other and hardy	60.00	550.00	ILEX CRENATA REPANDENS. Spreading-type crenata with small glossy green foliage.	60.00	550.00
GARDENIA RADICANS. Very popular dwarf-growing gardenia. Blooms so profusely that hardly a leaf can be seen when in full bloom.	60.00	550.00	ILEX CRENATA ROTUNDIFOLIA. Large green foliage, very hardy and probably the most popular crenata today	65.00	600.00
ILEX CRENATA BULLATA (Convexa). Dwarf-growing holly with glossy, convex foliage. Very nice hardy plant	65.00	600.00	ILEX OPACA EAST PALATKA. Fast-growing, upright holly with light green foliage ..	60.00	550.00
ILEX CRENATA BUXIFOLIA. Real nice new holly with round dark green foliage	60.00	550.00	JUNIPERUS EXCELSA STRICTA (Spiny Greek). Dark green upright juniper. Fast grower, conical shape	60.00	550.00
ILEX CRENATA DIVARICATA. Very dwarf similar to helleri. This is a nice variety that is surely going to become popular	60.00	550.00	LIGUSTRUM LUCIDUM COMPACTUM (Wax Privet). Very useful dark green broad-leaved evergreen. We have an excellent strain of this variety	60.00	550.00
ILEX CRENATA HETZL. Dark green foliage much larger than bullata. Hardy and very popular	65.00	600.00	LIRIOPE. Wide leaves of dark green with large spikes of blue flowers in summer	60.00	550.00
			PINES (Slash). Fastest growing pine of the south. Makes a nice shade for lawns	60.00	550.00

LINING-OUT STOCK

When we established this nursery in 1938, we decided to specialize in lining-out stock. We have done this and are recognized as the producers of the highest-quality liners that can be bought. We produce the best and urge you to consider us when in need of any of our liners.

	Per 100	Per 1000		Per 100	Per 1000
CAMELLIA SASANQUA PINK SNOW			ILEX CRENATA DIVARICATA		
6 to 8 ins.	\$20.00	\$180.00	4 to 6 ins.	\$12.00	\$110.00
8 to 12 ins.	22.50	200.00	6 to 8 ins.	15.00	140.00
CAMELLIA SASANQUA ROSEA			8 to 12 ins.	17.00	150.00
6 to 8 ins.	17.00	150.00	ILEX CRENATA MICROPHYLLA		
8 to 12 ins.	20.00	180.00	4 to 6 ins.	12.00	110.00
GARDENIA FORTUNEI			6 to 8 ins.	15.00	140.00
8 to 12 ins.	12.00	110.00	ILEX CRENATA REPANDENS		
12 to 18 ins.	15.00	140.00	4 to 6 ins.	12.00	110.00
GARDENIA MYSTERY			6 to 8 ins.	15.00	140.00
8 to 12 ins.	12.00	110.00	8 to 12 ins.	17.00	150.00
12 to 18 ins.	15.00	140.00	ILEX CRENATA ROTUNDIFOLIA		
GARDENIA RADICANS			6 to 8 ins.	12.00	110.00
6 to 8 ins.	12.00	110.00	8 to 12 ins.	15.00	140.00
8 to 12 ins.	15.00	140.00	ILEX GLABRA		
ILEX CRENATA BULLATA			6 to 8 ins.	12.00	110.00
6 to 8 ins.	17.00	150.00	8 to 12 ins.	15.00	140.00
8 to 12 ins.	20.00	180.00	MAGNOLIA GRANDIFLORA		
ILEX CRENATA BUXIFOLIA			4 to 6 ins.	12.00	110.00
4 to 6 ins.	15.00	140.00	PHOTINIA GLABRA		
6 to 8 ins.	17.00	150.00	6 to 8 ins.	12.00	110.00
			8 to 12 ins.	15.00	140.00
			PITTIOSPORUM TOBIRA		
			6 to 8 ins.	12.00	110.00
			8 to 12 ins.	15.00	140.00

250 or more of one variety and size will take the 1000 rate.

BLACKWELL NURSERIES, Semmes, Ala.

where customers may relax and watch 32 fountains "dance" to the music presented in daily concerts.

According to William Harris, president of Arcadian Gardens, the Menlo Park branch will be managed by Henry Dietz. Other outlets in the chain are located in shopping centers at Paramus and Westchester, N. J.; At New York, N. Y.; Philadelphia, Pa., and Washington, D. C.

ARBOR NALL FARM, Kansas City, Mo., was recently started by Jo Ann Stein, formerly a landscape designer in the area, and her husband, Ira. The business, in addition to nursery stock, carries garden ornaments and outdoor furniture imported from Spain, Portugal and the Orient.

SMALL FRUIT PLANTS

Grapes

Currants

Berry Plants

Write for Wholesale Price List

FOSTER NURSERY CO., Inc.

69 Orchard St.

FREDONIA, N. Y.

Bentley's

HARDY PLANTS

QUALITY—SERVICE
Perennials a Specialty.
2559 Mentor Ave. MENTOR, O.

TREE SEEDS

Conifers

We collect in the Lake States. Also supply western and European seeds.

**IRON MOUNTAIN
EVERGREEN CO.**

Iron Mountain, Mich.

**RARE and UNUSUAL
BULBS**
FREE list on request
GROWERS EXCHANGE, Inc.
FARMINGTON 8, MICHIGAN

**MR. NURSERYMAN
ARE YOU COMPLETELY
SATISFIED WITH THE
QUALITY OF NURSERY
STOCK YOU NOW GET?**

**THEY JEST AIN'T NO
BETTER PLANTS
THAN THEM GROWN
BY OZARK NURSERIES.**

The higher quality and hardier stock grown in irrigated fields assures you of satisfied customers every time. Nurserymen everywhere have acclaimed our nursery stock best by far. Let Ozark be your grower too.

**WRITE FOR OZARK'S
WHOLESALE
CATALOG**

Order from hundreds
of Ozark grown items.
Write today!

**OZARK NURSERIES CO.
TAHLEQUAH, OKLAHOMA**



OBITUARY

Richard R. Williams

Richard R. Williams, 76, retired founder of the Puget Sound Nursery & Gift Shop, Tacoma, Wash., died March 7 in a Tacoma rest home. Born in Washington state, Mr. Williams settled at Tacoma in 1917 and established the Puget Sound Nursery in 1922. Upon his retirement several years ago, his son-in-law, L. H. (Bud) McGuire, took over ownership of the firm.

A past president of the Washington State Nurserymen's Association, Mr. Williams was also active in community and lodge affairs. He was one of the founders and a director of the South End Boys Club, Tacoma, and was particularly interested in the youth program of the South Tacoma Kiwanis Club, which he served as president in 1949. He was a member of the Fern Hill lodge, F. and A. M.; Scottish Rite bodies, and Afri Temple of the Shrine.

Surviving are his widow, Alvara; his daughter, Mrs. L. H. McGuire; a son, Richard B. Williams, and three grandchildren, all of Tacoma.

Niels S. Lund

Niels S. Lund, owner and operator of Lund Nursery, Allandale, Fla., died March 15 at the age of 64. Born at Arrhuss, Denmark, Mr. Lund moved to Allandale from Jacksonville, Fla., four years ago. Among the survivors are his widow, Virginia, and two sons.

James Beck

James Beck, proprietor of Beck's Nursery, St. Cloud, Minn., died suddenly March 13. He was 74 years old. Born at Bornholm, Denmark, he came to this country at the age of 14 and attended schools at Chicago, Ill., and Austin, Tex. In 1910 he became a citizen of the United States.

He moved to Benton county, Minnesota, where he entered the nursery business, and in 1930 went to St. Cloud, where he had since operated Beck's Nursery, being widely known as a well informed plantsman and grower. His first wife, the former Inez Fuquay, preceded him in death in 1925. Two sons and two daughters of that marriage survive. In 1925 he married Caroline Novak, and she survives, with a daughter, Mrs. Fred Wolke, Long Beach, Calif. Others remaining are a sister, Augusta, Bornholm, Denmark; a

BROAD-LEAVED EVERGREENS

Choice landscape material
at attractive prices.

- Buxus sempervirens*, 12 to 15 ins. to 2 to 2½ ft.
- Elaeagnus fruitlandi*, 1½ to 2 ft. to 4 to 5 ft.
- Euonymus kiautschovicus*, 1½ to 2 ft. to 4 to 5 ft.
- Ilex burfordi*, 1½ to 2 ft. to 4½ to 5 ft.
- Ilex cassine*, 3 to 4 ft. to 5 to 6 ft.
- Ilex convexa* (bullata), 12 to 15 ins. to 2½ to 3 ft.
- Ilex rotundifolia*, 15 to 18 ins. to 3 to 3½ ft.
- Ilex opaca howardi*, 2 to 3 ft. to 4 to 6 ft.
- Ilex vomitoria*, 3 to 4 ft.
- Ligustrum japonicum*, 2 to 3 ft. to 4 to 5 ft.
- Ligustrum lucidum*, 1½ to 2 ft. to 5 to 6 ft.
- Ligustrum lucidum repandens*, 1½ to 2 ft. to 4½ to 5 ft.
- Osmanthus fortunei*, 1½ to 2 ft. to 3 to 4 ft.

Your Want Lists Solicited.

**HOWARD-HICKORY
COMPANY**

Box 491 HICKORY, N. C.
Telephone: DA 4-2539

CHINESE HOLLY (*Ilex cornuta burfordi*)

Sheared Specimens
Ready to Dig
18 ins. to 6 ft.

Write for Prices or Come to
See Them

also

Ilex crenata rotundifolia
Ilex crenata convexa
Ilex crenata microphylla

SOUTHSIDE NURSERIES, INC.

Rt. 15, Box 471

Richmond, Va.

Telephone: BElmont 2-0156

MORNING STAR NURSERY, INC.

Rives, Tennessee
Wholesale Growers
Evergreens, Trees
Deciduous Shrubs, Roses

Send us your want list.

AZALEAS CONIFERS and BROAD-LEAVED EVERGREENS

Finished Stock and
Potted Liners

Write for price list.

Send us your want list.

Fritschler's

NURSERY

4425 W. Lawn Dr.
Nashville 9, Tenn.



Baker Arborvitae

SUPER LINERS

OUTDOOR POT-GROWN LINERS
ARE THE BEST!

2 1/2-in. Deep Pots — Packed in Paper Cups — 100 per Carton —
25 Lbs. Shipping Weight — \$17.00 per 100, F.O.B. Scottsville.

10% Cash Discount — Write for Full List of Liners

VERHALEN NURSERY
Company
SCOTTVILLE 12140 HARRY HINES BLVD.
TEXAS DALLAS, TEXAS

Your Profits Grow in Verhalen Plants



Excelsa Arborvitae

brother, John, Mankato, Minn., and eight grandchildren. Last summer Mr. Beck made a trip to Europe to visit old friends and relatives.

The widow, who has been his partner in the business for the past 20 years, will continue to operate the nursery.

Stephen J. Heirens

Stephen J. Heirens, 53, Maywood, Ill., landscape contractor, died March 6, after a brief illness. Mr. Heirens was in the landscape business for 35 years, operating for the past 20 years from his Maywood location, 1835 South Third avenue.

The son of pioneer rose grower Peter Heirens, Rogers Park, he was a member of the Chicago Metropolitan Landscapers' Association. He is survived by his widow, Marie; five daughters, and three granddaughters.

Robert R. Alexander

Robert R. Alexander, who owned and operated Bob's Sun Valley Nursery, Phoenix, Ariz., died March 5. He was 44 years old. Mr. Alexander was a native of Phoenix and a veteran of World War II. Survivors include two daughters, his parents and a sister.

Albert Fisher

Albert Fisher, 64, until recently a partner in the Fisher Bros. Nursery, Beebe, Ark., died March 5 after suffering a heart attack in his home. Survivors include three brothers, Charles, Tom and John, and two sisters, Mrs. W. D. Turnage and Miss Sallie Fisher.

Fred Mahan

Fred Mahan, Monticello Nursery Co., Monticello, Fla., who, in recent years, donated shrubbery to landscape many courthouses in Florida,

PINK FLOWERING DOGWOOD

New Low Prices for Spring

Cornus florida rubra (Pink-Flowering Dogwood), Boyd's Select Strain			
	Per 10	Per 100	Per 1000
6 to 12 ins., 1-yr.	\$ 5.00	\$ 45.00	\$ 400.00
12 to 18 ins., 1-yr.	6.00	55.00	500.00
18 to 24 ins., 1-yr.	8.00	70.00	650.00
24 to 30 ins., 1-yr.	10.00	90.00	800.00
30 to 36 ins., 1-yr.	12.50	110.00	1000.00
3 to 4 ft., 2-yr., br.	17.50	150.00	1400.00
4 to 5 ft., 2-yr., br.	30.00	250.00	2000.00
5 to 6 ft., 3-yr., heavy, br.	45.00	400.00	3000.00
6 to 8 ft., 3-yr., heavy, br.	60.00	500.00	4000.00
8 to 10 ft., 4-yr., heavy, br.	70.00	600.00	.....

Bloom Buds \$1.00 extra per plant 4 ft. and up.
(B&B 50¢ extra per tree.)

If you are a qualified nursery dealer write for our new spring descriptive wholesale catalog.

Boyd Nursery Co., McMinnville, Tenn.

PYRACANTHA LALANDI

Root-Pruned Field Plants

Extra bushy and heavy foliage.

3 to 4 1/2 ft., B&B, \$1.50; 18 to 24 ins., B&B, 75¢

MAGNOLIA GRANDIFLORA

2 1/2-in. pots	\$0.09	2 to 3 ft., B&B	\$1.25
Quart cans .....	.14	3 to 4 ft., B&B	2.00
Gallon cans .....	.60	4 to 5 ft., B&B	3.00

BIG RIVER NURSERY

Dundee, Miss.

Phone: 572R4, Tunica, Miss.

ALDRIDGE NURSERY

VON ORMY, TEXAS

Wholesale Nursery Stock

Complete line of container and field-grown ornamentals

● Better Quality

● Better Value



PACKAGED STRAWBERRY PLANTS

Certified and Virus Free
Grown in the Ozarks of Missouri

Choice, well rooted, in bundles of 25, each packed in polyethylene, wrapped with attractive picture label and complete growing guide. Ideal for your retail trade.

Blakemore, Dunlap, Tennessee Beauty, Robinson, Aroma, 40-bundle crate, \$14.00.

Pocahontas, Dixieland, Armore, Surcrop, 40-bundle crate, \$15.00.
Streamliner, Everbearing, 40-bundle crate, \$16.00.

Bulk plants in bundles of 25, **Blakemore, Dunlap, Robinson, Tennessee Beauty, Aroma, per 1000 plants, \$7.50.**

Pocahontas, Dixieland, Armore, Surcrop, 1000 plants, \$9.00.

Streamliner, Everbearing, 1000 plants, \$12.50.

Plants well packed, prompt shipment, all strictly labeled to name. Live arrival guaranteed.

SHANK FARMS
Granby, Mo.

TRAAS' NURSERY

Langley, B. C., Canada

Dwarfing Fruit Tree Understock

QUALITY ONLY

Complete up-to-date information, free.

*Our Botanical Experience
Is Your Guarantee!*



**SEMME'S
NURSERIES**

AZALEAS - CAMELLIAS
and other choice evergreens

Wholesale Catalog SEMMES, ALA.



AZALEAS

Broad-leaved Evergreens and a general line of quality ornamentals.

THE TANKARD NURSERIES
EXMORE, VA.

CANNED PLANTS

Build profits with Wight's container-grown evergreens. Wide assortment, including Ilex, Magnolia, Camellias, Pyracantha. Ask for wholesale list.

Wight NURSERIES CAIRO, GA.

died March 12 at the age of 76. He underwent an emergency operation at a Thomasville, Ga., hospital a week prior to his death. Mr. Mahan was also the donor of plants which were used to beautify 25 miles of U. S. Highway 90, between Tallahassee and Monticello.

JUNIPER HOSTS OF RUSTS

Injury caused by gymnosporangium rusts is sufficiently severe in some years that these rusts are considered the most important diseases in commercial nursery and ornamental plantings, particularly in Illinois and adjacent states. Cedar-apple rust and cedar-hawthorn rust are the most widespread and injurious rusts on junipers in Illinois. While cedar-quince rust is present, it is usually less conspicuous and causes less injury.

The control of rust diseases in apple orchards by the use of fungicide sprays and by the development of resistant varieties of apples has greatly reduced the necessity for destroying or removing junipers as hosts of the diseases in the vicinity of such orchards.

Because of the importance of junipers as ornamental trees and shrubs in landscape plantings today, efforts have been made to compile a complete list of species and varieties of junipers that are known to be either susceptible or resistant to cedar-apple and cedar-hawthorn rusts. Such lists are important to nurserymen as well as homeowners as a guide for the selection of the more desirable varieties.

Arboretum Observation

The latest such list was presented in the February 15 issue of the Plant Disease Reporter by two plant pathologists of the Illinois Natural History Survey. Their observations were made on rusts at the Morton Arboretum, near Lisle, Ill., where the juniper collection is close to plantings of malus and crataegus. Spore horn development by the rust galls was so pronounced in May of 1959 that it was possible to determine the extent and severity of both rusts on the various species and forms of junipers. In addition to the list of susceptible varieties so compiled, other lists are available by observers elsewhere. From these, a table of species, varieties and forms of junipers susceptible to or resistant to cedar-apple rust and cedar-hawthorn rust was prepared, occupying two pages of the Plant Disease Reporter.

Two species, *J. pinchoti* and *J. utahenses*, and 13 varieties and

CRAB APPLES

2-yr., well-br.

Each

Hopa
11/16-in. cal.45c
9/16-in. cal.35c

Eleyi
11/16-in. cal.45c
9/16-in. cal.35c

Floribunda
11/16-in. cal.45c
9/16-in. cal.35c

APPLE TREES

2-yr., well-br.

Red Stayman, Red Delicious, Red Jonathan, Lodi, Yates, Red Winesap, Grimes Golden

11/16-in. cal.45c
9/16-in. cal.35c
We ship only well-developed trees with good roots. Will give prompt shipment.

SANDERS NURSERY CO.

Winchester, Tenn.
Phone: Decherd 3-5358

Imperial Nurseries
DIVISION A.S.T. CORPORATION

P.O. BOX 1020 F. HARTFORD, CONN.

QUALITY NURSERY STOCK

Complete Line
Quotations and Price List
on Request

DUTCH BULBS

Finest Quality
Write for catalog.
Nurseries in Windsor, Conn.

Quality stock plus pleasing
service. Inquiries invited.
88th Year of Growing

Box 88-A Sherman, Tex.
TEXAS NURSERY CO.

EVERGREEN GRAFTS POTTED LINERS CONTAINER STOCK

Ask for our latest list.
KENYONS NURSERY
Dover, Okla.

Wholesale Growers of Broad-Leaved
and Coniferous Evergreens

Ask for trade list.

LINDLEY NURSERIES, INC.
P. O. Box H Greensboro, N. C.

FRUIT TREES

Dwarf and Standard

Send for Wholesale List
KELLY BROS. NURSERIES, INC.
Dansville, N. Y.

Ornamentals
At Wholesale

CHASE NURSERY CO., INC.
Chase, Ala.

America's Finest

ROSES

Contract Growing Invited

Leading Patented and Popular Varieties

Grown in our nurseries at Tyler, Texas, and Phoenix, Arizona

Write for Variety List

CARL SHAMBURGER NURSERY

P. O. Box 458

Wholesale Only

Tyler, Texas

forms of other junipers not found in reports on susceptible hosts to cedar-apple rust were reported at the Morton Arboretum. Nine additional varieties not found in previous host lists were reported susceptible to cedar-hawthorn rust. Of the 116 species, varieties and forms of junipers listed in the table, 36 were noted as susceptible to cedar-apple rust and 14 as susceptible to cedar-hawthorn rust.

The problem of these two rusts would be reduced, if not eliminated, by the planting of a careful selection of resistant species and varieties of junipers. Particular attention should be given to varieties of *J. virginiana*, since 16 forms are susceptible to at least one or both rusts and 10 forms are believed resistant to both. *J. scopulorum* and all of its forms and varieties were observed to be susceptible to cedar-apple rust and should be used only if other juniper species are not available. Generally, varieties and forms of *J. chinensis* were reported resistant, as were the less common species of juniper not above mentioned.

CHICAGO FLOWER SHOW

[Continued from page 8]

devoted to floriculture and ornamental horticulture featured a fine array of amaryllises from a strain developed at the university.

All-America Seed Selections set up a projection unit with slides that indicated the process of creating F_1 plant hybrids.

An attractive booth presentation supplied by the United States patent office of the Department of Commerce, Washington, D. C., indicated steps in the procedure of patenting a plant, some forms used in the process, specimens of color representations of patented plants and pictures of office and greenhouse facilities used by the department. Several growing patented plants

LINING-OUT STOCK

Specimen Evergreens

MORAINÉ LOCUST

1 and 2-Yr. Tops

Heavy Shrubs

WILT-PRUF

SNEED NURSERY CO.

P. O. Box 798

Oklahoma City 1, Okla.

Quality Stock

Cherokee Chief Red-Flowering

Dogwood

(Plant Patent No. 1710)

Dogwoods of Named Varieties

Conifers — Flowering Crab Apples

Evergreens — Fruit Trees — Liners

Write for our wholesale list.

BUY QUALITY

TENNESSEE VALLEY NURSERY

Phone: WO 7-2652 Winchester, Tenn.

Sold Out For Spring, 1960

Many Thanks!

Remember Us in Fall, 1960, and

Spring, 1961

ANTHONY LAKE NURSERY, INC.

Pineola, N. C.

GLOBE NURSERIES

McMinnville, Tenn.

Shades — Liners — Fruits

FLORIDA - GROWN CITRUS

4-in. and 6-in. plastic pots.

Write for prices.

GOOCHLAND NURSERIES, INC.

Pembroke, Fla.

HOLLIES

AMERICAN HOLLY

(*Ilex opaca*)

The most wanted plants in America. We offer these only in named varieties, of tried and proved worth.



ORIENTAL HOLLIES

Popular varieties, such as *Ilex burfordii*, *I. cornuta femina*, *I. hetzi* and *I. rotundifolia*. Write for descriptive wholesale price list.

STEPHENS NURSERIES

Semmes, Ala.



AARS winners and 130 other popular varieties. In attractive, colorful packages or bare root.

Beautiful shade, productive too! Prolific varieties. Sizes 1 1/2 to 12 feet. In attractive packages or bare roots. Get stock list and prices.

PECAN TREES



ARP Nursery Co.

Box 3338-J, Tyler, Texas

Bamboo, Gardenias, Figs, Shade Trees

Write for Complete List.

McKEE'S NURSERY

P. O. Box 749
Covington, La.

PINK DOGWOOD LINERS

Silver Maple, Hall's Honeysuckle, Flowering Peach, Forsythia, Crab Apple, Fruit Trees, Poplar, Privet.

Write for trade list.

FLOWER CITY NURSERIES

Rt. 3 McMinnville, Tenn.

QUALITY STOCK GROWN BY US

Cherokee Chief Red-Flowering Dogwood (Plant Patent No. 1710)

Shade Trees, Flowering Trees, Evergreens, Broad-Leaved Evergreens.

Write for wholesale list.

HAWKERSMITH & SONS NURSERY
Tullahoma, Tenn.

You'll Like NAUGHER'S Quality PINK DOGWOOD

18 to 24 ins., B. R.	Each \$0.90
24 to 30 ins., B. R.	1.00
30 to 36 ins., B. R.	1.15
3 to 4 ft., B. R.	1.35

- Fibrous Root System
- Heavily Branched
- Fully Dormant
- Liberally Graded
- Packing Free

Now Shipping—Order Today



ROSE BUSHES

Patented and Standard in
Good Assortment
Bare-Root—Packaged
Write for price list.

C. E. WILSON NURSERIES

Box 400 Jacksonville, Tex.
Phone: 4117

POTTED LINERS Taxus Junipers

BAB sizes to trucks only.
HUMPHREYS LANDSCAPE SERVICE
MT. STERLING, KY.

CUMBERLAND VALLEY NURSERIES, INC.

Wholesale Growers of Dependable
Fruit and Flowering Trees
Write for latest price list.
313 N. Chancery St.
McMINNVILLE, TENN.

Quality Plants Since 1841

HILLENMEYER
Nurseries
GEORGETOWN 22
9th U.S. 15 NORTH
LEXINGTON, KY.

were shown. Figures presented indicated that as of March 1, 1960, 1,918 plant patents had been issued. These were broken down into group classifications, with illustrations, as follows: Roses, 936; flowers, 446; fruits, 408, and plants, 127.

BOERNER GARDENS

[Concluded from page 16]

newly developed lilac collection. There are over 335 varieties represented by over 700 individual plants.

The administration building includes a lecture room and an herbarium. The herbarium includes pressed specimens of the woody and the nonwoody plants found in the vicinity of the park. These are mounted and labeled, each label bearing the common and the botanical names, family, locality where collected and other relevant data. In its completed state, the herbarium will contain specimens of all leaves, flowers, buds, winter twigs and fruit of all the woody plants hardy in the arboretum, and leaves, flowers and stems of native herbaceous material.

The botanical gardens are a tax-supported institution under the direct control of the Milwaukee county park commission. It is the purpose of this institution to keep accurate scientific information on all plant material that can be assembled and determine which plants are hardy in this region, the objective being to improve the use and variety of plants grown in this part of the country.

FLOWERING SHRUBS

[Continued from page 15]

tected spot is recommended, but the tree requires room to spread.

Styrax obassia (fragrant snowbell) looks quite different from *S. japonica*, as one may judge by observing illustration D. The leaves are much larger and rounder, and the flowers are terminal and borne in racemes. The flowering time does not vary too much from that of the smaller-leaved species, except (some seasons) to be a bit earlier.

The fragrant snowbell has not fared so well in East Lansing as the Japanese snowbell, and both were growing in the same area. The large-leaved species has branches that are upright, contrasting with the more lateral-branched *Styrax japonica*.

The *stewartias*, whose flowers resemble single camellia blooms, are excellent large shrubs or small trees for early summer flowers. There are about three that are worthy of being grown.

The Japanese *stewartia* (*Stewartia*

WRITE TODAY FOR

Steele's Grower's Catalog

ACTUAL COLOR PICTURES

The Professional's
Pansy

Steele's

PANSY GARDENS INC.

P. O. Box 4555 • 2715 S. E. 39th Avenue
Portland 2, Oregon

Better Liners
of the Better Kinds

Good Roots • Good Tops
Eastern Shore Grown

DECIDUOUS LINERS

Write for Price List
JACQUES L. LEGENDRE, Pres.

GULF STREAM NURSERY
WACHAPREAGUE, VIRGINIA

WE SPECIALIZE IN FINE
Azaleas and Camellias

Write for Catalog
FLOWERWOOD NURSERY
GREGORY L. SMITH, Owner
Rt. 1, Box 130 MOBILE, ALA.

CHINESE CHESTNUT TREES

Seedlings only of the Peter Lul strain, 1-yr. whips and 2-yr. branched, mostly Nanking progeny. Also, properly stored weevil-free seed nuts. Our low costs of production permit low quantity prices. Inquiries invited.

LEELAND FARMS
Leesburg, Ga.

QUALITY EVERGREEN LINERS
in wide assortment.

Gilmore

Gilmore Plant & Bulb Co.
Jullian, N. C.

1960 A. A. C. S. Winner
SPARKLING BURGUNDY
(Plant Pat. No. 1539)

A hardy *Sasanqua* of rare beauty.
CASADABAN'S NURSERIES
Abita Springs, La.

EVERGREENS

100 acres of choice evergreens
ready for sale.

Write for price list.

GRANT'S NURSERY

Rt. 2 Caledonia, Miss.

pseudocamellia) and the Korean Stewartia (*Stewartia koreana*) resemble each other in many ways. The flowers of both, for instance, have white, somewhat wrinkled petals with yellow to orange centers, and their times of flowering do not differ greatly.

In the New York city area the flowering may begin as early as June 20 and continue freely until about July 10, but the more usual beginning is July 1, with blooms lasting to about mid-July. The time of flowering near Philadelphia is about the same.

About the most attractive Stewartia is the native *S. ovata grandiflora*. It is different from the Oriental species in that the flowers (illustration E) are usually larger, and the stamens purple instead of yellow. The older branches of the Stewartias are almost as attractive as the flowers. The bark flakes off to give the distinct mottled appearance shown in illustration F. The colors vary from brown to orange to light gray.

The branching is semiupright, and the foliage usually takes on a soft bronze green when first produced in the spring. This color sometimes persists to an even later date.

Two lesser-known large shrubs or small trees that bloom in June are *Pterostyrax hispida* (fragrant epaulette tree) and *Pterostyrax corymbosa* (little epaulette tree). Though they are both reasonably fast growing, the fragrant species is the faster, its stems having grown as much as three or more feet in one year. Its leaves are longer than those of the little epaulette tree, with more tapering tips and coarser teeth.

The flowers remind one of an epaulette, as the common names indicate, those of *Pterostyrax hispida* being about twice the size of the *corymbosa* blooms. The flowers of both sometimes appear in late May in the New York city area but are more usually seen about the same time as the flowers of *Styrax japonica*. In East Lansing the little epaulette tree was in good flower on June 10 last year (illustration G).

Both trees are on the coarse-textured side. Neither is a new plant, since the smaller-leaved species was introduced into cultivation as long ago as the middle of the 19th century, and the other, 25 years later.

This summer-flowering sequence will be completed in the May 15 issue. Such shrubs as the Anthony Waterer spiraea and others are not mentioned, because it seemed more important to discuss those that are lesser known and possibly more usable.

FRUIT TREES

at
Late April Special Prices

Offered in bulk or individually root wrapped and color-tag labeled.

APPLE

2-yr., 5 to 6 ft., br., in bulk	Per 100	
2-yr., 5 to 6 ft., br., individually root wrapped	\$ 50.00	
Double Red Delicious	Summer Rambo	Red Yorking
Early Yellow Transparent	Double Red Stayman	Winesap

FIVE-IN-ONE APPLE

2-yr., 4 to 5 ft., in bulk	125.00
2-yr., 4 to 5 ft., individually root wrapped	140.00
3-yr., 5 to 7 ft., in bulk	150.00
3-yr., 5 to 7 ft., individually root wrapped	170.00

PEACH

5 to 6 ft., 11/16-in. cal., in bulk	55.00	
5 to 6 ft., 11/16-in. cal., individually root wrapped	75.00	
Belle of Georgia	Halehaven	South Haven
Elberta	Keystone	Summercrest

PLUM

5 to 7 ft., in bulk	85.00	
5 to 7 ft., individually root wrapped	100.00	
Abundance	Methley	Red June
Burbank	Mammoth Golden	Shropshire Damson

Ask for Wholesale Price List

WAYNESBORO NURSERIES

Waynesboro, Virginia



ROOTED CUTTINGS

Each 100 rate, 10c; each 1000 rate, 8c.
300 at 1000 rate.

JUNIPERUS

Chinensis glauca hetzi
Chinensis pfitzeriana
Chinensis pfitzeriana Blue

POTTED LINERS JUNIPERUS

In 2¼-in. Peat Pots, 6 to 8 ins., 1-yr.

READY NOW!

Each 100 rate, 18c; each 1000 rate, 16c.
Chinensis pfitzeriana
Chinensis glauca hetzi
Horizontalis plumosa (Andorra)

PEACE & SON NURSERY

R. R. 1

Siloam Springs, Ark.

HAVE YOU TRIED PERENNIALS? by C. H. Potter. Propagation, soil, field care, marketing and other important data. 160 p., illus. (1959). \$3.00.
American Nurseryman 343 S. Dearborn St. Chicago 4, Ill.

FRUIT TREES

STANDARD and DWARF

Write for wholesale list.

MALONEY BROS. NURSERY CO., INC.
Dansville, N. Y.

Specialists in PERENNIALS

SEEDS—PLANTS—BULBS

Perhaps America's largest list of unusual plant materials.

Wholesale catalog on request.

PEARCE SEED COMPANY
Dept. N MOORESTOWN, N. J.

Commercial Nursery Co.
Decherd, Tennessee
Wholesale Nurserymen Since 1900

CHRYSANTHEMUMS

See our list in classified section.

GILSON GARDENS
Perry, Ohio



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
304 MITAU BUILDING SACRAMENTO 14, CALIF.

REDWOOD EMPIRE CHAPTER

The Redwood Empire chapter of the California Association of Nurserymen held its March 8 meeting at Ruffino's, Napa. After the reading of the minutes, Secretary Hugh L. Wallace announced that mats of the nursery association emblem are available to members for use in newspaper advertising.

A letter from T. A. Weston, garden editor of the American Home magazine, was read. He thanked the chapter for its response to an article on trees published recently in that magazine.

President Richard L. Lackey, Lackey's Nursery, Napa, reporting for the constitution and bylaws committee, read the proposed changes; they were to be voted on at the April meeting.

A motion was passed that the secretary send a copy of the minutes to all chapter members for a 6-month trial period. Hobery's Resort was said to be ready to assist the chapter in its bid for the 1962 state convention. After the introduction of Hal Holmes, new sales manager of C. M. Volkman & Co., San Francisco, and the giving of prizes, Vice-president Ruth Cullen, Rincon Nursery, Santa Rosa, introduced Dan Reidel, of the California Spray-Chemical Corp., Richmond, who showed a film, titled "Habit Formation," showing salesmen what they should and should not do when meeting customers.

Hugh L. Wallace, Sec'y.

MONTEREY BAY CHAPTER

The Monterey Bay chapter of the California Association of Nurserymen met March 17 at the Spindrift restaurant, Monterey, with 32 members and guests present. After guests were introduced and the minutes of the February meeting were read and approved, Vice-president Clayton Pleiman, Tempo Landscape & Garden Service, Pacific Grove, introduced the speaker of the evening, William Huffman, of the University of California agricultural extension office at Salinas.

Mr. Huffman outlined the services available to nurserymen from the Salinas office, including brochures and individual recommendations on

soils and soil mixes and on control of insects, weeds and plant diseases.

President Marion Sloan, Sloan's Nursery, Santa Cruz, then introduced the question of the chapter's inviting the C. A. N. to hold its 1962 convention at Monterey. During the discussion that followed, various aspects of convention arrangements were brought out, such as the division of expenses between the state association and the host chapter and distribution of the revenue from the sale of exhibit space. The discussion was concluded with passage of a motion that the chapter formulate a bid for the convention in 1962 and present it at the September C. A. N. convention at Yosemite.

Before the meeting was adjourned, President Sloan announced that the state office was to review the bylaws of the Monterey Bay chapter and that the chapter's bylaw committee would suspend its study of possible

revisions until recommendations were received from Sacramento.

Sue Mell, Sec'y.

TRI-COUNTY CHAPTER

A meeting of the Tri-County chapter of the California Association of Nurserymen was held February 26 at the Miramar hotel, Santa Barbara, Calif., with 35 members and guests in attendance. After the reading and approval of the minutes of the preceding chapter and board meetings, the treasurer's report was read.

State Association President Jack Schneider, Orchard Nursery & Florist, Lafayette, discussed the 40 per cent dues assessment, pointing out that the income of the horticultural trade ranks eighth in the state, and it is the association's aim to help nurserymen to receive their share of this percentage, something that can only be made possible if the trade as a whole improves its selling techniques. The chapter agreed not to protest the program, but to wait for one year to see its outcome.

State Director Walter S. Barrows talked about the refresher course offered at the California State Polytechnic College, San Luis Obispo,

West's Best Fruit Trees



OUR CONTRACT GROWING GIVES YOU LOWER COSTS . . . HIGHER PROFITS

Your profit margin goes up when we grow your fruit tree requirements, because it's our policy to grant attractive discounts on contract orders. Inquire today. Contract growing assures you of getting the right varieties on the right rootstock at the right time for maximum sales.

Shade, Fruit or Flowering Trees . . . the West's Best Are Stribling's.

Ask for Free Wholesale Price List.

Stribling's NURSERIES, INC.
1620 W. 16th Highway 99 North Randolph 2-4106
P. O. Box 793 Merced, Calif.

Spring Song of

"T

O

P


S

IN ROSES"



Sing a song of roses

Here's a rose-y 

You try 

They're sure to get
your vote!

1960-61 variety "scores" are ready for audition. If we miss you, just
warble - - sing high, sing low, but let us know!



WEEKS WHOLESALE ROSE GROWER

O. L. WEEKS

926 W. ELY

ONTARIO, CALIF.



June 4 and 5. Members were disinclined to charter a bus to transport the membership to the school; however, a motion was passed that the chapter's June meeting be held June 4 at the Cal Poly campus. There will be no formal program, but all members will participate in the refresher course in the afternoon and in the barbecue in the evening.

An application for affiliate membership by Mark E. Paulson, Tri-Counties salesman for Monrovia Nursery Co., Azusa, Calif., was accepted. Another new affiliate member is Otto Martens, Deigaard Nurseries, Monrovia. The next meeting was to be held at Ventura, with the Tri-Counties chapter of the Landscape Contractors' Association.

Lynda Williams, Sec'y.

AID LANDSCAPE PROJECT

Members of the Central chapter, California Association of Nurserymen, are cooperating in a project to landscape the building and grounds of the Mount Diablo Therapy Center recently constructed at Pleasant Hill, Calif. Hundreds of trees and shrubs donated by the nurserymen are being planted by members of the center's woman's auxiliary unit and their husbands.

A sprinkler system has been installed and lawns planted in front of the buildings, where ornamental plantings are now being made. It is expected that the entire landscape will be completed next year. Heading the nurserymen's group is Bert Bertolero, Navlet's, Oakland and

Concord, assisted by Jack Whitbeck, Sunset Nursery, Danville, and E. L. Wright, Wright Bros. Nursery, Lafayette.

Participating in the project with donations of a variety of trees are Dave's Happy Valley Nursery, Lafayette; Orchard Nursery & Supply, Lafayette; Sunset Nursery; King's Nursery, Moraga; Moraga Valley Nursery, Orinda; Don's Nursery, Concord; Pleasant Hills Garden Supply & Nursery, Walnut Creek; Herman Sandkuhle, and McDonnell's Nursery, Walnut Creek.

Shrubs and plants were gifts of Navlet's Wholesale Nursery, Lafayette; Four-Mile Nursery, Lafayette; Benassini's Nursery, Concord, and Sunset Nursery. Peat moss was donated by the Sunshine Peat Co., and

SURPLUS LIST

ACER PLATANOIDES Drummondii Variegated Norway

Maple

6 to 8 ft., br.
5 to 6 ft., br.
8 to 9 ft., whips
7 to 8 ft., whips

Faassen's Red-Leaved Maple

8 to 10 ft., br.
6 to 8 ft., br.
5 to 6 ft., br.
8 to 9 ft., whips
7 to 8 ft., whips
6 to 7 ft., whips

Norway Maple

8 to 10 ft., br.
6 to 8 ft., br.
5 to 6 ft., br.

Pyramidal Columnar Maple

8 to 9 ft.
7 to 8 ft.
6 to 7 ft.

ACER PSEUDOPLATANUS

(Plane Tree Maple)

Improved Spaeth

8 to 10 ft., br.
6 to 8 ft., br.
5 to 6 ft., br.

ACER RUBRUM (Red Maple)

10 to 12 ft., br.
8 to 10 ft., br.
6 to 8 ft., br.
5 to 6 ft., br.
4 to 5 ft., br.

FRAXINUS QUADRANGULATA (Blue Ash)

8 to 10 ft., br.
6 to 8 ft., br.
5 to 6 ft., br.

SORBUS AUCUPARIA (European Mountain Ash)

8 to 10 ft., br.
6 to 8 ft., br.

BETULA ALBA (European White Birch)

12 to 14 ft., br.
10 to 12 ft., br.
8 to 10 ft., br.
6 to 8 ft., br.
5 to 6 ft., br.
4 to 5 ft., br.

Prices and catalog sent upon request.

POWELL VALLEY NURSERY

210 S. E. Vista Ave.

Gresham, Ore.

Phone: MO 5-3537

DID YOU KNOW?

That there is no record of a Sequoia dying from old age or disease.



SHERWOOD NURSERY CO.

Evergreens - PROPAGATORS AND GROWERS
WHOLESALE

Corbett, Ore.

The Homestead Nurseries

H.G. Benckhuysen. Boskoop. Holland

Specializing in hardy Rhododendrons and Azaleas, Acer, Fagus, Ornamental Trees and Shrubs, Perennials in leading varieties. Quality stock. Trade list on request. Ocean and air freight.

ROSES OLD and NEW

Fine-quality, two-year plants budded on Multiflora in over 250 varieties.



MT. HOOD NURSERY

Rt. 2, Box 96

GRESHAM, ORE.

ENGLISH HOLLY

Cutting-Grown, Heavy, Choice
Female and Male

Each
4-yr., 3-gal., 36 to 40 ins. \$2.00
3-yr., 2-gal., 30 to 36 ins. 1.75
F.O.B. Chino, Calif.

L.T.L. Transportation Arranged
Minimum quantities required.

DESCANSO NURSERIES

12492 Pipeline Ave.

Chino, Calif.

fertilizer by Concord Garden Supply.

ARBORISTS MEET

Dr. Richard Harris, chairman of the department of landscape management, University of California at Davis, was the speaker at the March 16 meeting of the California Association of Arborists. The committee appointed to investigate the matter of fees for advice given to homeowners who do not have work done gave its report.

John Davis, Davis Tree Service, Menlo Park, reported that he had called on several members with regard to fees and, according to his survey, most members did make a charge when they were called on by a prospective client, provided that they were required to spend considerable time at the home, gave some professional advice and then were not employed to do any work. Those who do charge for advice explain the fact to the client at the time an appointment is made, indicating that the fee will be refunded if the contract is obtained. Some, however, do not refund the fee. There is a great variation in the amount charged, Mr. Davis pointed out. It was suggested that the committee go into this matter and report back with recommendations on the matter at a later meeting of the arborists' association.

New Membership Group

The matter of forming a new class of membership was brought to a head by a letter of resignation from one of the group's older members. He reported that he retired from active arboriculture and, since he had moved to a distant location, could no longer attend the meetings. It was felt that such men as he and several University of California and Stanford University faculty members, who in the past have been active in the association but now are no longer able to attend the group's regular meetings, should be kept on the association roster in recognition of the work they have done for arborists in general and the association in particular. The matters of who should be eligible for such an honor and methods of preventing the new class from becoming too large were thoroughly discussed, but no decision was reached. It was concluded that this membership be called a merit membership and that it be limited in numbers to a small group of deserving individuals.

Dr. Harris discussed the activities

of his department, which will conduct research on matters of interest to the association and train young men and women in the work of arboriculture and allied lines. Mr. Harris indicated that the work being done at the University of California is different from that done at any other institution of higher learning. He said it is to some degree complementary to other courses in horticulture and landscape work offered at other University of California campuses and other schools throughout the nation.

He grouped the teaching and research to be done into 10 categories, three of which are now being worked on. Work on the others will depend on interest shown in the form of state appropriations or grants in aid from the groups that wish to have the work done.

Current and Proposed Work

On the problem of turf management, work has been started and considerable information has already been obtained. Graduates in turf management are being employed by golf courses faster than the college can produce them. Additionally, there is tree evaluation work, which includes the study of the characteristics of trees and selection and recommendation of those trees best suited for various areas of the state. Arboriculture, which includes pruning and other cultural practices on a more vocational basis, is also taught.

For the future Dr. Harris suggested the study of landscape floriculture, which is primarily a study of the flowering plants suitable for landscape design for varying effects and various parts of the state. There would also be studies on plant nutrition, Dr. Harris said, calling attention to the differences in fertilizer needs of trees and vegetables grown in the same soil. Enumerating the remaining categories, Dr. Harris said the following research should be done: Developing rootstocks for ornamentals, making it possible to graft desirable kinds of trees onto stocks which are adaptable to varying soil conditions and are disease, insect or nematode resistant; developing new varieties by selection and perhaps breeding on a scale similar to that followed at the Saratoga Horticultural Foundation, Saratoga; studying a plant's ability to withstand frost and freezing, as well as other climatological factors such as drought and wind; studying shrubs in common use in the state, the first steps being the standardization of

PACIFIC COAST NURSERY

Rt. 1, Box 114B, PORTLAND 10, ORE.

Phone: MAYfair 1-3325

**Pioneering Seedling Growers on
the Pacific Coast Since 1914**

**Specializing in Fruit Tree Seedlings,
Shade and Flowering Trees**

French and
Domestic Apple Seedlings,
Str. and Br.

Bartlett Pear Seedlings,
Str. and Br.

French Pear Seedlings,
Str. and Br.

Calleryana Pear Seedlings,
Str.

Manchu Cherry Seedlings
(Prunus tomentosa)

Mahaleb Cherry Seedlings

Mazzard Cherry Seedlings

Myrobalan Plum Seedlings

American Plum Seedlings

Angers Rooted Quince
Cuttings

Combination carloads to eastern distributing points.

John Holmason & Sons
Props.

PORTLAND WHOLESALE NURSERY CO.

5050 S. E. STARK ST.

Avery H. Steinmetz
Paul E. Van Allen

PORTLAND 15, OREGON

Quality Stock

CONIFERS AND BROAD-LEAVED
EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES

Many items still avail-
able this season. Send
us your want list.

Write for our Catalog

SURPLUS ROSES

Northern California Grown—Super Quality—Multiflora Root

HYBRID TEAS
Angel Wings
Capistrano
Chrysler Imperial
Fandango
First Love
Forty-Niner
Gail Borden
Garden Party
Isobel Harkness
Love Song

HYBRID TEAS (Cont'd)
Sutter's Gold
White Butterfly
GRANDIFLORA
Queen Elizabeth
Starfire
FLORIBUNDA
China Doll
Texan
Fusilier

CLIMBERS—PILLARS
Cl. Charlotte Armstrong
Cl. Chrysler Imperial
Cl. Peace
Cl. Queen Elizabeth
Cl. Texas Centennial
Golden Showers

NONPATENTED
Charlotte Armstrong

Write for complete list.

DESCANSO NURSERIES

12492 Pipeline Ave. — Chino, Calif.
All-America Rose Selections Member

THE BEST YOU CAN BUY ANYWHERE

All Available in
No. 1 and No. 1½ Grades

Aztec	Little Darling
Buccaneer	Mojave
Carrousel	Montezuma
Chrysler Imperial	New Yorker
Circus	Pink Favorite
El Capitan	Peace
Fashion	Royal Velvet
Fan Tan	Rubaiyat
First Love	Starfire
Garden Party	Sutter's Gold
Gold Cup	Tapestry
Golden Girl	Tiffany
Grande Gala	White Knight
Helen Traubel	Vogue
Improved Blaze	Queen Elizabeth
Ivory Fashion	Cl. Blossomtime
Josephine Bruce	Cl. Peace
Kordes Perfecta	Cl. Golden Showers
Lavender Girl	

JOHN CARRIGG & SONS

Nationally Famous Roses
Jefferson, Ore.

Jan de Graaff's

OREGON BULB FARMS
P. O. Box 512
GRESHAM, OREGON

Lilies
Exclusively

RHODODENDRON AND EVERGREEN LINERS

In Season

J. B. WHALLEY NURSERY
Rt. 2, Box 688 TROUTDALE, ORE.

CUTTING-GROWN
RHODODENDRON LINERS

Hardy and semihardy varieties,
Quality only

VAN VEEN NURSERY
3127 S. E. 43rd Ave.
PORTLAND 6, ORE.

Maurice C. Ravensberg
Boskoop, Holland

Reliable exporters for general nursery
stock since 1922.

Catalog on application

The MALLING-MERTON STORY

The story of the Malling Apple rootstocks from IX to XVI—and their successors, the M. M.'s 104, 106, 109, 111 and M.XXV. Performance figures, etc.

Free for the asking.

CHICK -A- DEE GARDENS NURSERY
Sherwood, Ore.

the nomenclature and the acquisition of information on growth rates under differing conditions; observing effects of various kinds of soil on ornamentals, including the growing of trees in containers and under other restricted conditions for city street plantings, and, perhaps, eventually cooperating with landscape engineers to make studies of plantings on slopes in newly graded areas, retaining wall construction and care and similar topics.

Teamwork Needed

The speaker explained that all of these studies require teamwork on the part of research workers, some of whom might be specialists in one phase of the work but comparatively uninformed on the technical problems of other phases. He asked for suggestions on additional problems to be considered.

There was a long discussion at the conclusion of the talk, and several other problems were mentioned by the arborists and park workers present. General satisfaction was expressed with the project both in the proposed research and the teaching of students who could carry out the findings on a commercial basis. Cooperation was promised by individuals and by President Leslie Mayne on behalf of the association.

Programs for the next three or four meetings were discussed. The membership committee report stated that an active drive for new members had not been started, pending a decision as to certain classes of membership and the requirements that will be drawn up regarding them.

W. B. B.

GRIMSHAW'S ADDS STORE

Grimshaw's, Mount Eden, Calif., opened its fourth nursery and garden center March 3, at the Bayfair shopping center, Hayward, Calif. The firm's other branches are located at Niles and Castro Valley.

The new center covers 23,000 square feet, of which 3,000 are under roof, and large glass doors and windows help to blend the indoor area with the outdoors. The store offers 325 varieties of plants and features, as do the other Grimshaw stores, dwarf citrus, as well as gladioli, lilies of the valley, peonies, begonias and tulip and other bulbs, mostly imported from Holland. It carries also a complete line of insecticides, liquid chemicals and gardening and landscaping materials. The center's manager is Paul Lund.

President of Grimshaw's is Charles Grimshaw, son of Joseph Grimshaw,

MILTON NURSERY CO.

Since 1878

MILTON-FREEWATER, ORE.

Flowering, Ornamental, Shade Trees and Shrubs, Fruit Trees, Fruit Tree Seedlings and Angers Quince Rooted Cuttings.

Licensed Growers of

Moraine Locust (Pat. No. 836)
Shademaster Locust (Pat. No. 1515)
Sunburst Locust (Pat. No. 1313)
Crimson King Maple (Pat. No. 735)

Send for Our Price List

Our combination carlots for eastern distributing points during shipping season save freight costs.

A. MCGILL & SON

FAIRVIEW, ORE.

Wholesale only

FRUIT TREE SEEDLINGS
FLOWERING ORNAMENTAL TREES
SHADE TREES

Licensed Growers of

Crimson King Maple (Pat. No. 735)
Moraine Locust (Pat. No. 836)
Shademaster Locust (Pat. No. 1515)
Skyline Locust (Pat. No. 1619)
Sunburst Locust (Pat. No. 1313)

Constant Vigilance Results
in Quality Stock

Combination carloads to eastern
distributing points.
Write for our list.

FIRST CHOICE

... for consistently finer
Yakima Valley grown nursery
stock... since 1909.

May
NURSERY COMPANY
P. O. Box 1312 Yakima, Wash.

ORNAMENTAL WOODY PLANTS
AND ROSES

Write for our lists.

W. B. CLARKE & CO.
P. O. Box 343 SAN JOSE, CALIF.

ROSES

Top-quality, northern California, field-grown, patented and standard bush and tree roses. Write for list and prices.

ELMER ROSES

6708 N. San Gabriel Blvd.
SAN GABRIEL, CALIF.

who started the business 36 years ago and was its president until his retirement in 1955. Ron Marciel, formerly a Hayward accountant, joined the firm as secretary last May and is general manager of the business.

OREGON CHAPTER NOTES

The Sunset chapter of the Oregon Association of Nurserymen scheduled a meeting for April 11, at the Forest Hills Country Club, Cornelius. Mrs. Ruth King, vice-president of the Oregon School Board Association, was to talk on the President's White House conference. The chapter's board of directors held a meeting recently at Beaverton.

The Emerald Empire chapter met recently at Eugene. Vern Cornelius, Eugene, opened the meeting, introducing the new chapter president, Robert Van Zonneveld, Van Dyke Gardens, Eugene, who then took charge of the program. Reed Vollstedt, Reed's Garden Centers, reported on the recent state board meeting. Easton Cross, Cross Landscape Service, Eugene; Reed Vollstedt, and Richard Miller, Edgewood Gardens, Eugene, were appointed to a committee charged with investigating the legality of city-maintained greenhouses. The chapter plans participation in the Lane county fair later in the year. The next meeting of the chapter will be held April 21.

The Columbia River chapter held a meeting recently, with President Bill Moller, Moller's Nursery, Fairview, in charge. Walter A. Grayson, director of public relations, Union Pacific railroad, was the speaker; he told interesting facts about Sun Valley, Ida. William Anderson, Troutdale, was elected secretary-treasurer of the chapter.

The Clackamas chapter executive board met at the home of Mr. and Mrs. Dave Brown, Wichita Nursery, Milwaukie. President Harold Miller, Miller Landscape Service, Milwaukie, led the meeting. Larry Effinger, Clackamas chapter representative on the O. A. N. state board of directors, reported on the recent board meeting. The chapter will again hold a field trip to Corvallis this year, visiting the state college experiment station, in late June or early July. Other chapters will be asked to participate. The chapter will explore the idea of distributing brochures pertaining to the nursery business in Clackamas county, consider the idea of an educational booth at the Clackamas county fair in August and check on the advisability of presenting 4-H scholarships.

**CONTACT US
FOR ALL YOUR...**

HORTICULTURAL PRINTING

Our entire organization is trained to serve you from original idea to the finished product.

COOPERATIVE CATALOGS FOR NURSERYMEN
CAMELLIA and RHODODENDRON TAGS • BULB and ROSE LABELS
GLADIOLUS PRINTS • FOLDERS • POSTERS • CALENDARS

Sweeney, Krist and Dimm

535 N.W. 16th AVENUE, DEPT. B • PORTLAND 9, OREGON • Capitol 6-6881

INCREASE SALES 100%

Don't Keep Your Customers Waiting for information about your stock. These self-selling plastic labels give all the information your customer wants — creating additional sales while you are busy.

We have the largest selection of horticultural subjects on plastic labels anywhere. Available in two types: (1) Over 800 varieties illustrated in full color; (2) over 600 fully descriptive labels with large, readable type.

SHOW IT and SELL IT — HIDE IT and KEEP IT

ASK FOR FREE SAMPLES AND CATALOG

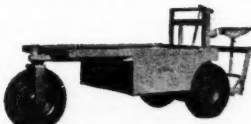
GROWERS & MANUFACTURERS EXCHANGE

8434 S. Rosemead Blvd., Rivera, Calif.
Phone OXford 9-0711

No. 3 Container-Marker (picture and holder). Holder is 27 inches high. Prongs at bottom prevent turning in the wind. Use for salesyard display.



Electric TAYLORTRUCKS



Model AN 3-54, 1/4 ton

**FOR
10c
PER
DAY**



Model B-3-72, 1/2 ton

QUICK, QUIET HAULING AROUND YOUR GARDEN CENTER

PHONE TODAY FOR INFORMATION and FREE DEMONSTRATION

MEADOWS BROTHERS NURSERY SUPPLIES

P. O. Box 277, Altadena, Calif.

Phone: SYcamore 7-1171

OREGON HOLLIES

Skimmia japonica
General Nursery Stock
May we quote you?

ALFRED TEUFEL

Wholesale Grower
11414 N.W. Cornell Rd.
Portland, Ore.

QUALITY LINERS

Write for our catalog listing over 500 varieties.

MITSC NURSERY

Aurora, Ore.

DOTY & DOERNER, Inc.

6691 S. W. CAPITOL HIGHWAY
PORTLAND 19, OREGON

**WHOLESALE
GENERAL NURSERY STOCK**

FOREST SEEDS OF CALIFORNIA

Since 1952
P. O. Box 561
Davis, Calif.

Native coniferous seed for direct seeding and forest nurseries.

CLASSIFIED ADS

Rate: 40 cents per line, each insertion.

Minimum order, \$4.00.

Instructions for the May 1 issue must be received by Friday, April 15.

Forms for May 15 issue will close Friday, April 29.

ANNUALS

SNAPDRAGON PLANTS
Transplanted and grown in sterilized soil.
All good hybrid varieties.
Dark pink or rose color, light pink, yellow, white, red and lavender.

Nice plants.
\$25.00 per 1000, \$2.50 per 100.

PECK'S FLOWER SHOP
Box 193 Phone 118 Sheldon, Ill.

STEELE'S MASTODON JUMBO PANSIES
Our famous transplants in bud and bloom. Individually dug and wrapped 25 per bunch, \$4.00 per 100, postpaid; \$20.00 per 1000, express collect.

WARD'S PANSY GARDENS
6028 Houston Rd. Macon, Ga.

AZALEAS

AZALEAS FOR LANDSCAPING
CASH AND CARRY ONLY, NO DELIVERY.
Formosa Coral Bells
Omurasaki Twenty Grand
Christmas Cheer Mine, Pericat
3 to 6 ft. in size.

Other varieties in smaller sizes.
DELHAVEN GARDENS AND NURSERY
Route 1 Bayside, Va.
5 miles east of Norfolk, Va.
Phone HOward 4-0861. Nights, MADison 5-8180

BECKY AZALEA
Patent No. 1699.
New Azalea with longer lasting flowers!
In bud and bloom, potted in clay pots.
8 to 10 ins., \$1.15 each, packed 16's.
12 to 15 ins., \$2.50 each, packed 6's.
Packing charge, 50c per ctn. Priced F.O.B.
POSTERS NURSERIES AND GRHSES, INC.
Secane, Pa.

AZALEA BLAAUW'S PINK
Our own introduction.
Color beautiful shrimp pink, hose-in-hose, an excellent forcing variety, perfectly hardy.
Flat-grown transplants.
\$25.00 per 100, \$200.00 per 1000.
Greenhouse-grown plants, 4 to 6 ins., \$40.00 per 100, \$350.00 per 1000.
J. BLAAUW & CO., LINCROFT, N. J.

GLENDALE HYBRID AZALEAS
3-yr.-old plants, 12 to 15 ins., nice and bushy, 20 colors, \$1.00 each, B&B. Supply limited.

TILLMAN NURSERY
Indiana Highway 662 Newburgh, Ind.
Phone UL 3-8649

HINO-CRIMSON, SNOW, ETC.
Some beautiful specimen grades kurume and kaempferi hybrids still left. Also nice assortment of 1-yr., field-grown and liners. Attractive prices. Send for list.

THE TANKARD NURSERIES
Exmore, Virginia

AZALEAS
25 varieties.
Field-grown and rooted cuttings.
WIGMORE'S NURSERIES
Norman Ave., Riverside Pk., Riverside, N. J.
Phone BELmont 5-2210.

AZALEAS
Write for our spring list of hardy Azaleas.
THE LEVICK NURSERY CO.
R. F. D. 3 Bridgeton, N. J.

AZALEAS, CUTTINGS AND LINERS
Price list on request.
AVALON MOUNTAIN GARDENS, Dana, N.C.

BARBERIES

RED-LEAVED BARBERRY
(Berberis atropurpurea)
2-yr. seedlings Per 100 Per 1000
30,000 6 to 9 ins., \$4.00 \$35.00
1 branch up
PETER BROUWER'S NURSERIES
24 Lester St. New London, Conn.

BERBERIS ATROPURPUREA
2-yr. seedlings, well-branched.
9 to 12 ins., \$5.00 per 100; 12 to 18 ins., \$7.50 per 100; 18 to 24 ins., \$10.00 per 100. Cash with order.
D & D ROSE GARDENS
42 Monmouth Rd. Eatontown, N. J.

RED-LEAVED BARBERRY
(Atropurpurea) 2-yr. seedlings.
Per 100 Per 1000
Lining-out \$4.50 \$40.00
9 to 12 ins., branched 9.00 80.00
12 to 18 ins., branched 12.00 110.00
18 to 24 ins., branched 16.00 140.00

RED-LEAVED BARBERRY
(Atropurpurea) 4-yr. transplants.
Heavy stock.
12 to 18 ins. \$28.00 \$240.00
18 to 24 ins. 32.00 280.00
Our red Barberrry is one of the finest strains in the U. S. A.

GREEN-LEAVED BARBERRY
(Thunbergii) 4-yr. transplants.
12 to 18 ins. \$24.00 \$200.00
18 to 24 ins. 28.00 240.00
DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

BERRY PLANTS

BERRY PLANTS
No. 1 No. 1
RED RASPBERRIES suckers transplants
Latham, Indian Summer, per 1000 per 1000
Newburgh, Durham \$65.00
Taylor \$60.00
Puyallup 75.00
Sunrise 55.00

PURPLE RASPBERRIES
Sodus, Columbian 100.00
Burgundy (plant pat. 1567) 120.00 150.00

BLACKBERRIES
Bailey, Hedrick, Ebony King. 100.00
Early Harvest, Blowers, 45.00
Eldorado 40.00 45.00
Lucretia Dewberry 40.00 50.00
Send for our complete list of bush fruits and flowering shrubs.

CONGDON'S WHOLESALE NURSERY
North Collins, N. Y.

RED RASPBERRIES
Gatineau, Madawaska, Earlired (all very early); Latham, Muskoka, Canby, Thames and New Hampshire (all mid-season); Durham and September everbearing, up to 3/16-in., \$65.00 per 1000; over 3/16-in., \$75.00 per 1000.

Above sent F.O.B. shipping point.
Pack-out prices on request.
Write for free catalog and wholesale price list describing over 70 varieties of small fruit plants, listed and best in Strawberry plants.
WALTER K. MORSE & SON
Bradford, Mass.

LATHAM RASPBERRY PLANTS

Top quality plants. New Jersey twice state inspected. Grown in fumigated soil. Plants are a heavy grade with an exceptionally fine root system.
No. 1, 3/16 to 1/4-in., \$40.00 per 1000.
No. 1, 1/4-in. up, \$50.00 per 1000.

Prices are F.O.B. Free packing. Spring delivery.

BRIDGE VIEW NURSERY
Waterford Works, N. J.

VERY SPECIAL
Certified, No. 1 Raspberry canes, Newburgh and Viking, \$40.00 per 1000; 10,000 or more, \$35.00 per 1000. Packing free, F.O.B. Montreal, subject unsold.

W. H. PERRON & CO., LTD.
615 Labbe Blvd., L'Abord-a-Plouffe
Montreal 40, Canada

BERRY PLANTS
Blueberries, red Raspberries, Rhubarb, Asparagus, Horseradish and Gooseberries. Refer to our priced ad on page 79.
KRIEGER'S WHOLESALE NURSERY
Bridgman, Mich.

Classified Ads Offer Maximum Results at Minimum Cost.

BULBS and TUBERS

MICHIGAN-GROWN GLADIOLI
We would like to have you try our bulbs. These mixtures contain many good colors.
Per 1000 Gladiolus bulbs Nos. 1 2 3
Giant EXHIBITION MIXTURE, \$25 \$20 \$15
Fancy BLENDED MIXTURE, 30 24 19
Net cash with order. F.O.B. Dowagiac.
GEO. W. HUNTER, GROWER
Route 3 Our 43rd year. Dowagiac, Mich.

QUALITY GLADIOLUS BULBS

Per 1000; 100 of a kind at 1000 rate.

No. 1 2 3
Abu Hassan, deep blue \$22 \$18 \$15
Alf. Nobel, pink, white throat 20 16 13
Beauty's Blush, bluish-pink 20 16 13
Eliz. the Queen, light lav. 22 17 14
Florence Nightingale, white 20 16 13
Friendship, light pink, early 20 16 13
Fiat Lux, soft citron-yellow 22 18 15
Gold, deep yellow 22 18 15
Han Van Meergeren, yellow 20 16 12
Happy End, scarlet, early 20 16 13
Gall, ruffled lavender 22 18 15
Jo Wagenaar, deep red 20 16 12
Lady Jane, cream 20 16 12
Lelf Ericson, tall cream-white 20 16 14
Margaret Beaton, wht., red throat 20 16 12
Margaret Fulton, coral-pink 20 16 12
Mother Fischer, tall white 22 17 15
Orange Gold, tall clear orange 20 16 13
Pactolus, apricot-cream 20 16 13
The Rajah, deep ruffled purple 22 18 15
Rosa Van Lima, shell-pink 20 16 12
Sierra Snow, large white 22 18 14
Sans Souci, scarlet-red 20 16 12
Snow Princess, white 18 15 12
Spic and Span, tall pink 20 16 13
Spotlight, yellow, red throat 25 20 ..
Token, orange-red 18 16 12
Traveler, medium rose 25 20 ..
Valeria, scarlet-red 22 18 15
White Goddess, ruffled white 20 16 13
Yellow Herald, ruffled yellow 18 15 12
Mixed, not less than 10 colors 17 14 12

TERMS: 25 per cent deposit with order, balance c.o.d., f.o.b. St. Anne, Ill. 5 per cent discount on orders of \$100.00 and up. All bulbs true to name, clean and up to size. This list offered subject to prior sale.

SIMON SALT & SONS, ST. ANNE, ILL.
Wichert Rural Station, Box 471,
Phone HAZelwood 7-6791.

TUBEROUS BEGONIAS

Belgian-grown, **DOUBLE CAMELLIA-TYPE** in eight colors or mixed.
JUMBO SIZE, 2 1/2-in. UP \$20.00 per 100
Write for our complete wholesale price list.

DE GROOT BULB CO.
12-02 Ellis Ave. Fair Lawn, N. J.

BUXUS

BUXUS SEMPERVIRENS WELLERI
Per 100 Per 1000
4 to 6 ins. \$2.50 \$20.00
6 to 8 ins. 4.00 35.00
4-yr., 12 to 15 ins. 6.00 50.00
THE JOSEPH F. MARTIN CO., INC.
Box 189 Painesville, O.

Boxwood, Japanese; good strong flat-grown plants, 6 ins. up, \$35.00 per 1000. Cash. Free, exotic book of over 100 colored pictures with order of 500 or more plants.
Pacific Plant Brokerage, P. O. Box 332, Lomita, Calif.

BUXUS SEMPERVIRENS (BOXWOOD)
Good plants from 2-yr. beds.
\$10.00 per 100, \$90.00 per 1000.
MOUNTVILLE NURSERIES
Mountville, Ga.

CHRYSANTHEMUMS

THE U. S. A.'S BEST LIST OF HARDY MUMS
including the All-America selections.
Write for the complete descriptive list. Read about our big 30 per cent discount sale.
THE JOSEPH F. MARTIN CO., INC.
Box 189 Painesville, O.

FLORETUM COLORFUL GARDEN MUMS
Bred for early blooming, frost tolerant, winter hardiness. There is no substitute for truly hardy, colorful garden mums. Ask for trade list.
PRAIRIE SOUTHWEST FLORETUM
Fall River, Kan.

HARDY GARDEN MUMS
Strong rooted cuttings, \$6.00 per 100, \$55.00 per 1000. Send for list of 100 good varieties.
THON'S PERENNIAL GARDENS
25 W. Golf Rd. Arlington Heights, Ill.
Phone HE 7-3184

ROOTED CUTTINGS

Allegro, shrimp-pink, cushion type
Blaze, bonfire red Cactus
Chas. Nye, large deep yellow Pompon
Chorale, pale lavender
Delight, golden Pompon
Early Crimson, bright crimson
Firelight, bronze-red Spoon
Holiday, golden bronze, large flowers
Huntsman, scarlet-orange
Helen Bogue, large rose-purple
Indian Red, rust Cactus cushion type
Kristina, deep rose-pink Daisy
Lee Powell, large decorative Chinese-yellow
Lipstick, dark red cushion
Major Cushion, lavender Pompon
Meditation, orange-bronze
Peggy Ann Hoover, lavender-pink Spider
Plainsman, orange-bronze
Polar Ice, decorative white
Radiant, white Spoon
Red Coat, fully dbl. vermilion
Ruby Breithaupt, immense primrose-yellow
Spark, lemon-yellow, low growing
Taffy, salmon-rose buff shades
Yellow Daisy Cushion, yellow
White Doty, large white Pompon
10 to 24 of one variety, 8c each; 25 to 100 of one variety, 6c each.

GILSON GARDENS
Perry, O.

DELPHINIUMS

GIANT PACIFIC DELPHINIUM, 2 1/2-IN.
Galadiah, Summer Skies, Blue Bird, Black
Knight, Astolat, King Arthur, 50 plants,
\$5.50; 100 plants, \$10.00; 500 plants, \$47.50;
1000 plants, \$90.00. Delivery now through
September.

DELPHINIUM SEEDLINGS

Above varieties, 100 or more plants per
flat, \$3.50 per flat; 2 or more flats, \$3.00 per
flat. Shipped express in our new "Saf-Tee-
Pac-Wey." Delivery now through September.
SCHMIDT GREENHOUSES, HARVARD, ILL.

LYONDEL HYBRID DELPHINIUM

2-yr., mixed plants.
Good for garden center potting.
Bloom this spring.
\$12.00 per 100, \$110.00 per 1000.
Cash. F.O.B.

BUSH NURSERY

25 E. Summit Muskegon Heights, Mich.

DOGWOODS

SPECIMEN LANDSCAPE MATERIAL
The following available for spring delivery.
Root-pruned, well-budded. Each, 100
Pink Dogwood, 1000 4 to 5 ft. \$ 3.50
1000 6 to 8 ft. 4.50
1000 9 to 10 ft. 5.00
300 1 1/2 to 2-in. cal. 10 to 12 ft. 10.00
White Dogwood, 3000, 4 to 5 ft. 1.50
5000 6 to 8 ft. 3.00
2000 1 1/2 to 2-in. cal. 8 to 10 ft. 5.00
B&B, \$1.00 extra. Inspection invited.
VOYTESHARK FARM NURSERIES
Cor. of Naugatuck Ave. and W. Rutland Rd.
Phone TR 4-3498 Milford, Conn.

EVERGREENS, Liners

EVERGREEN SEEDLINGS
2-YR.-OLD
Douglas Fir, 4 to 8 ins. \$ 1.00 25.00
Scotch Pine, 6 to 10 ins. 5.00 20.00
3-YR.-OLD
Douglas Fir, 5 to 10 ins. 7.00 35.00
Concolor Fir, 4 to 8 ins. 12.00 55.00
Austrian Pine, 10 to 14 ins. 8.50 42.50
Jap. Black Pine, 10 to 18 ins. 12.00 60.00
Scotch-French, 10 to 15 ins. 7.50 30.00
Scotch-Spanish, 10 to 16 ins. 7.50 30.00
Black Hills Spruce, 3 to 6 ins. 6.50 25.00
4 to 8 ins. 8.00 40.00
Col. Blue Spruce, 4 to 8 ins. 8.00 40.00
American Arborvitae, 3 to 6 ins. 5.00 22.50
4 to 8 ins. 7.00 32.50
4-YR.-OLD
American Arborvitae, 6 to 14 ins. 8.00 38.00
Col. Blue Spruce, 6 to 12 ins. 10.00 50.00
Remittance with order. Plants at 100 rate
sent prepaid to zone 5. 500 plants at the 1000
rate, express or parcel post collect.
NEUNER'S EVERGREEN NURSERY
368 Elcher Rd. Pittsburgh 2, Pa.

ROOTED CUTTINGS

Ready for shipment after April 1, 1960.
Each 100 rate, 10c; each 1000 rate, 8c.
JUNIPERUS
Chinensis glauca hetzi
Chinensis pfitzeriana
Chinensis pfitzeriana blue
Horizontalis
Sabina Von Ehron
JUNIPERUS
POTTED LINERS
In 2 1/2-in. peat pots. Each, 100 1000
Chinensis pfitzeriana \$0.13 \$0.16
Chinensis glauca hetzi18 .16
Horizontalis plumosa (Andorra)... .18 .16
Sabina Von Ehron13 .16
PEACE & SON NURSERY
R. R. 1 Siloam Springs, Ark.

ORNAMENTAL LINERS

Per 100 Per 1000
Taxus, Adams, 1-yr., 2 1/2-in. pots \$18.00 \$170.00
Taxus, Adams, 2-yr., 2 1/2-in. pots 24.00 220.00
Taxus, Adams, 3-yr., TT 35.00 325.00
Taxus andersoni,
1-yr., 2 1/2-in. pots 18.00 170.00
2-yr., 2 1/2-in. pots 24.00 230.00
3-yr., TT 35.00 325.00
4-yr., TT 42.50 400.00
Taxus browni, 4-yr., 2 1/2-in. pots 18.00 170.00
Taxus browni, 2-yr., 2 1/2-in. pots 24.00 230.00
Taxus browni, 3-yr., TT 35.00 325.00
Taxus browni, 4-yr., TT 42.50 400.00
Taxus cuspidata,
1-yr., 2 1/2-in. pots 17.00 160.00
2-yr., 2 1/2-in. pots 22.00 210.00
3-yr., TT 35.00 325.00
4-yr., TT 42.00 400.00
5-yr., TTT 62.50 600.00
Taxus hicksi, 1-yr., 2 1/2-in. pots 18.00 170.00
Taxus hicksi, 2-yr., 2 1/2-in. pots 22.00 220.00
Taxus hicksi, 3-yr., TT 35.00 325.00
Taxus hicksi, 4-yr., TT 42.50 400.00
Taxus hicksi, 5-yr., TTT 62.50 600.00
Taxus hunnewelliana,
1-yr., 2 1/2-in. pots 18.00 170.00
2-yr., 2 1/2-in. pots 24.00 230.00
Thuja, globe, 1-yr., 2 1/2-in. pots 19.00 180.00
Thuja, globe, 2-yr., 2 1/2-in. pots 25.00 240.00
Ilex convexa, 2-yr., TT 27.50 250.00
Ilex hetzi, 2-yr., TT 27.50 250.00
Ilex rotundifolia, 2-yr., TT 27.50 250.00
Ilex rotundifolia, 4-yr., TT 62.50 600.00
Ilex stokesii, pat. No. 887,
1-yr., 2 1/2-in. pots 25.00 225.00
2-yr., 2 1/2-in. pots 27.50 250.00
EVERGREEN SEEDLINGS
100 1000
Scotch Pine,
2-yr. seedlings, 2 to 4 ins. \$ 2.00 \$10.00
2-yr. seedlings, 4 to 8 ins. 4.00 20.00
3-yr. seedlings, 8 to 14 ins. 4.00 20.00
3-yr. seedlings, 10 to 18 ins. 5.50 28.00
2-2 transplants, 5 to 10 ins. 10.00 50.00
2-2 transplants, 10 to 18 ins. 15.00 75.00
French-Scotch, 2-yr. seedlings,
1 to 3 ins. 2.00 10.00
3 to 6 ins. 4.50 22.50
Spanish-Scotch, 2-yr. seedlings,
1 to 3 ins. 2.00 10.00
3 to 6 ins. 4.50 22.50
Austrian Pine, 2-yr. seedlings,
1 to 3 ins. 2.00 10.00
3 to 6 ins. 4.00 20.00
Red Pine,
2-yr. seedlings, 2 to 4 ins. 3.00 15.00
3-yr. seedlings, 5 to 10 ins. 5.00 25.00
Mugho Pine, 3-yr. seedlings,
2 to 4 ins. 7.00 35.00
Douglas Fir, 3-yr. seedlings,
1 to 3 ins. 3.00 15.00
3 to 6 ins. 7.00 35.00
Colorado Blue Spruce,
3-yr. seedlings, 2 to 4 ins. 3.50 12.50
3-yr. seedlings, 3 to 6 ins. 7.00 35.00
White Spruce, 3-yr. seedlings,
3 to 6 ins. 2.50 12.50
Norway Spruce, 2-yr. seedlings,
2 to 4 ins. 2.00 10.00
4 to 8 ins. 4.00 20.00
TERMS: No charge for packing. 25 per
cent with order, balance C.O.D. 250 of a
variety at 1000 rate. Special quotations on
large orders or complete beds. Please write
for complete list.

HEASLEY BROS. NURSERY
Box 218, R. D. 1 Greensburg, Pa.
Phone LA 7-5532.

TAXUS CAPITATA

Per 100 Per 1000
2-yr., seedlings, 4 to 6 ins. \$10.00 \$ 80.00
4-yr., seedlings, 8 to 12 ins. 20.00 150.00
4-yr., seedlings, 12 to 15 ins. 25.00 200.00
T. 8 to 15 ins. 30.00 250.00
T. 8 to 15 ins. 37.50 350.00
5-yr., TT, 8 to 12 ins. 55.00 500.00
4-yr., 2 1/2-in. pots, 4 to 8 ins. 27.50 250.00
1-YR., 2 1/2-IN. ROSE POTS
Per 100 Per 1000
Taxus media Adams, 4 to 6 \$20.00 \$180.00
Taxus media andersoni, 4 to 6 22.00 200.00
Taxus media browni, 4 to 6 22.00 200.00
Taxus media cliftoni, 4 to 6 22.00 200.00
Taxus cuspidata, 4 to 6 ins. 22.00 200.00
Taxus cuspidata, semilup, 22.00 200.00
4 to 6 ins. 22.00 200.00
Taxus media densiformis, 27.50 250.00
Taxus media hatfieldi, 4 to 6 22.00 200.00
Taxus media hatfieldi No. 18, 22.00 200.00
4 to 6 ins. 22.00 200.00
Taxus dwarf heasleyi, 4 to 6 24.00 220.00
Taxus media hicksi, 4 to 6 ins. 22.00 200.00
Taxus media hunnewelliana, 27.50 250.00
4 to 6 ins. 22.00 200.00
Taxus media kelseyi, 4 to 6 22.00 200.00
Taxus media Moon's columnaris, 22.00 200.00
4 to 6 ins. 22.00 200.00
Taxus media thayerae, 4 to 6 22.00 200.00
Taxus cusp. vermeulenii, 4 to 6 22.00 200.00
Taxus media wardi, 4 to 6 ins. 27.50 250.00
Juniper, Andorra compacta, 22.00 200.00
4 to 6 ins. 22.00 200.00
Juniperus communis depressa, 22.00 200.00
aurea, 4 to 6 ins. 22.00 200.00
Juniperus glauca hetzi, 4 to 6 22.00 200.00
Juniperus (Irish) fastigiata, 22.00 200.00
(Continued in next column)

(Continued from previous column)

Juniperus chin. nelsoni, 4 to 6 22.00 200.00
Juniperus chin. pfitzeriana, 22.00 200.00
4 to 6 ins. 22.00 200.00
Juniperus chin. pfitzeriana glauca, 27.50 250.00
4 to 6 ins. 22.00 200.00
Thuja occ. elegantissima, 22.00 200.00
4 to 6 ins. 22.00 200.00
Thuja occ. pyramidalis, 4 to 6 22.00 200.00
Thuja occ. (Siberian), 4 to 6 22.00 200.00
Thuja occ. Hetz's Winter Green, 22.00 200.00
4 to 6 ins. 22.00 200.00
Thuja occ. woodwardi, 4 to 6 22.00 200.00
Ilex convexa bullata, 3 to 6 ins. 22.00 200.00
Ilex crenata hetzi, 4 to 6 ins. 22.00 200.00
Ilex crenata rotundifolia, 4 to 6 17.00 170.00
2-YR., 2 1/2-IN. ROSE POTS
Taxus media andersoni, 6 to 12 27.50 250.00
Taxus media browni, 6 to 12 27.50 250.00
Taxus media cliftoni, 6 to 12 27.50 250.00
Taxus cuspidata, 6 to 12 ins. 27.50 250.00
8 to 12 ins. 27.50 250.00
Taxus media Halloran, 6 to 12 27.50 250.00
Taxus media hatfieldi, 6 to 12 27.50 250.00
Taxus media hatfieldi No. 18, 27.50 250.00
6 to 8 ins. 27.50 250.00
Taxus heasleyi dwarf, 6 to 8 27.50 250.00
Taxus media hicksi, 6 to 12 27.50 250.00
Taxus media hunnewelliana, 35.00
6 to 8 ins. 35.00
Taxus intermedia, 6 to 12 ins. 27.50 250.00
Taxus media thayerae, 6 to 12 27.50 250.00
Taxus cusp. vermeulenii, 6 to 12 27.50 250.00
Taxus media wardi, 6 to 12 ins. 35.00 300.00
Taxus media wellerleyana, 27.50 250.00
6 to 12 ins. 27.50 250.00
Taxus media wymani, 6 to 12 30.00 275.00
2-YR., TT, FIELD
Juniper, Andorra compacta, 30.00 275.00
6 to 12 ins. 30.00 275.00
Juniperus communis depressa, 30.00
aurea, 4 to 8 ins. 30.00
Juniperus glauca hetzi, 6 to 12 27.50 250.00
Juniperus chin. nelsoni, 6 to 12 35.00 300.00
Juniperus chin. pfitzeriana, 30.00 275.00
6 to 12 ins. 30.00 275.00
Juniperus chin. pfitzeriana 30.00 275.00
glauca, 6 to 8 ins. 30.00 275.00
3-YR., TT, FIELD
Taxus media Adams, 8 to 12 30.00 275.00
Taxus media andersoni, 8 to 12 35.00 325.00
Taxus media browni, 8 to 12 40.00 350.00
Taxus cusp. capitata, seed- 40.00 350.00
ling-grown, 8 to 15 ins. 40.00 350.00
Taxus media cliftoni, 8 to 12 40.00 350.00
Taxus cuspidata, 8 to 12 ins. 35.00 325.00
Taxus cuspidata, semilup, 40.00 350.00
8 to 12 ins. 40.00 350.00
Taxus media hatfieldi, 8 to 12 40.00 350.00
Taxus media hatfieldi No. 18, 40.00 350.00
8 to 12 ins. 40.00 350.00
Taxus media hicksi, 8 to 12 40.00 350.00
Taxus intermedia, 8 to 12 ins. 40.00 350.00
Taxus media thayerae, 8 to 12 40.00
Juniperus glauca hetzi, 40.00 375.00
12 to 15 ins. 40.00 375.00
Juniperus chin. nelsoni, 8 to 12 50.00 450.00
Juniperus chin. pfitzeriana, 40.00 375.00
12 to 15 ins. 40.00 375.00
Thuja occ. elegantissima, 40.00 350.00
12 to 15 ins. 40.00 350.00
Thuja occ. pyramidalis, 12 to 40.00 350.00
15 ins. 40.00 350.00
Thuja occ. Hetz's Winter 40.00 350.00
Green, 12 to 15 ins. 40.00 350.00
Thuja occ. woodwardi, 8 to 12 45.00 400.00
Retinispora nana aurea, 50.00
8 to 12 ins. 50.00
4-YR., TT, FIELD
Taxus media Adams, 12 to 15 40.00 350.00
Taxus media andersoni, 12 to 15 46.00 400.00
Taxus media browni, 12 to 15 50.00 450.00
Taxus capitata, 8 to 15 ins. 40.00 350.00
Taxus cuspidata, 10 to 15 ins. 45.00 400.00
Taxus media hatfieldi, 8 to 12 50.00 450.00
Taxus media hatfieldi No. 18, 50.00 450.00
8 to 12 ins. 50.00 450.00
Taxus media hicksi, 12 to 15 50.00 450.00
Taxus intermedia, 8 to 12 ins. 55.00 500.00
Partial list of liners. Catalog on request.
HEASLEY'S NURSERIES
247 Freeport Rd. Butler, Pa.

EVERGREEN LINERS

POTTED, BEDED CUTTINGS
POTTED LINERS Per 100 Per 1000
Juniper, Pfitzer, 2 1/2-in. pots \$27.50 \$250.00
Juniper, Pfitzer compacta, 27.50 250.00
2 1/2-in. pots 27.50 250.00
Juniper, glauca hetzi, 22.50 200.00
2 1/2-in. pots 22.50 200.00
Taxus, Adams, 2 1/2-in. pots 27.50 250.00
Taxus browni, 2 1/2-in. pots 27.50 250.00
Taxus cuspidata, 2 1/2-in. pots 27.50 250.00
Taxus hatfieldi, 2 1/2-in. pots 27.50 250.00
Taxus intermedia, 2 1/2-in. pots 27.50 250.00
Thuja pyramidalis, 22.50 200.00
2 1/2-in. pots 22.50 200.00
Thuja woodwardi, 2 1/2-in. pots 22.50 200.00
3-YR. BEDED CUTTINGS
Taxus cuspidata 17.50 150.00
Taxus hicksi 17.50 150.00
Imperial Pyramid 17.50 150.00
Juniper, Andorra 17.50 150.00
Siberian Arborvitae 17.50 150.00
Juniper, Pfitzer 17.50 150.00
No charge for packing if cash accompanies
order.
THE HOLLANDIA GARDENS
South Vienna, O.

EVERGREENS, Liners—Continued

EVERGREENS, WHOLESALE		
Quality stock at low, quantity price.		
MUSSEY SPECIAL STRAIN		
SCOTCH PINE		
2-yr. seedl. (2-0), 4 to 8 ins.	Per 100	Per 1000
2-yr. seedl. (2-0), 5 to 10 ins.	6.00	\$ 30.00
3-yr. seedl. r.p. (3-0), 8 to 16 ins.	9.00	45.00
WHITE PINE		
3-yr. seedl. r.p. (3-0), 8 to 12 ins.	9.00	45.00
PONDEROSA PINE		
3-yr. seedl. r.p. (3-0), 8 to 12 ins.	9.00	45.00
MUGHO PINE, pumilio strain (true dwarf)		
3-yr. seedl. (3-0), 2 to 4 ins.	7.00	35.00
4-yr. seedl. r.p. (4-0), 4 to 8 ins.	10.00	50.00
4-yr. trans. (3-1), 8 to 16 ins.	15.00	75.00
AUSTRIAN PINE		
3-yr. seedl. r.p. (3-0), 8 to 14 ins.	8.00	40.00
WHITE SPRUCE		
3-yr. seedl. r.p. (3-0), 8 to 12 ins.	8.00	40.00
4-yr. trans. (3-1), 6 to 12 ins.	15.00	75.00
5-yr. trans. (3-2), 12 to 16 ins.	20.00	100.00
BLACK HILLS SPRUCE		
3-yr. seedl. r.p. (3-0), 5 to 10 ins.	7.00	35.00
4-yr. seedl. r.p. (4-0), 8 to 12 ins.	10.00	50.00
4-yr. trans. (3-1), 4 to 8 ins.	15.00	75.00
MUSSEY EXCLUSIVE NORWAY SPRUCE fast growing		
2-yr. seedl. r.p. (3-0), 10 to 15 ins.	10.00	50.00
3-yr. trans. (2-1), 5 to 10 ins.	15.00	75.00
4-yr. trans. (3-1), 8 to 12 ins.	20.00	100.00
COLORADO BLUE SPRUCE		
3-yr. seedl. r.p. (3-0), 6 to 12 ins.	11.00	55.00
5-yr. trans. (2-2), 8 to 14 ins.	35.00	175.00
WHITE FIR (concolor)		
3-yr. seedl. r.p. (3-0), 6 to 12 ins.	9.00	45.00
4-yr. seedl. r.p. (4-0), 8 to 12 ins.	14.00	70.00
AMERICAN ARBORVITAE		
3-yr. seedl. r.p. (3-0), 8 to 12 ins.	8.00	40.00
4-yr. trans. (3-1), 8 to 12 ins.	16.00	80.00
Many other Evergreen Items—Rhododendrons and Azaleas.		
All stock carefully graded and packed.		
MUSSEY FORESTS, INC.		
Box 16-CD	Indiana, Pa.	

SPRING OF 1960
ROOTED CUTTINGS

	Per 100	Per 1000
Arborvitae, pyramidal, 6 to 10 ins.	\$0.10	\$0.09
Arborvitae woodwardi, 6 to 8 ins.	.10	.09
Juniper, Andorra, 6 to 8 ins.	.11	.10
Juniper, Hetz, 6 to 8 ins.	.10	.09
Juniper, Pfitzer, 6 to 8 ins.	.11	.10
Juniper, Swedish, 6 to 8 ins.	.10	.09
Taxus browni	.11	.10
Taxus hicksi, 6 to 8 ins.	.10	.09
Taxus cuspidata, 6 to 8 ins.	.10	.09
Taxus capitata (leaders), 6 to 8 ins.	.13	.12
Taxus densiformis, 6 to 8 ins.	.11	.10
Taxus hatfieldi, 6 to 8 ins.	.11	.10
1-YR. TRANSPLANTS		
Taxus cuspidata	.18	.16
Taxus hicksi	.18	.16
Arborvitae woodwardi	.16	.15
2-YR. TRANSPLANTS		
Arborvitae woodwardi	.23	.20
Taxus cuspidata	.26	.24
Taxus hicksi	.26	.24
Juniper, Irish	.23	.20
Euonymus vegetus, large-leaved	.15	.13
Euonymus vegetus, small-leaved	.15	.13
Euonymus alatus	.20	.18
3-YR. TRANSPLANTS		
Taxus hicksi	.34	.32
Taxus cuspidata	.34	.32
Taxus hatfieldi	.34	.32
Taxus densiformis	.36	.34
2-YR. SEEDLINGS		
Colorado Blue Spruce	.08	.03
Taxus capitata	.12	.10
GRAFTS		
Koster Blue Spruce	\$1.25 each	
Moerheim Blue Spruce	1.25 each	
Swartz Blue Spruce	1.25 each	
GRAFTS		
Juniper, Burk	Per 100	Per 1000
Juniper, Canaert	\$0.55	\$0.50
Juniper, Dundee	.55	.50
Juniper, Keteleer	.55	.50
Juniper, Hillspire	.55	.50
50 of a variety at 100 rate.		
300 of a variety at 1000 rate.		
DRAKES NURSERIES		
G-4342 Branch Rd.	Flint 6, Mich.	

GRAFTS		
	Per 10	Per 100
Juniper, Burk	\$0.55	\$0.50
Juniper, Canaan .....	..	..
Juniper, Dundee .....	..	..
Juniper, Ketelee .....	..	..
Juniper, Hillspire .....	..	..
50 of a variety at 100 rate.		
300 of a variety at 100 rate.		
DRAKES NURSERIES		
G-4342 Branch Rd.	Flint 6,	Mich.
PINE TREE SEEDLINGS		
Austrian Pine and Scotch Pine of French strain or Austrian Hill strain.		
		Per 1000
3-yr., 5 to 10 in.		\$12.00
3-yr., 8 to 12 in.		20.00
4-yr., 12 to 16 in.		25.00

EVERGREEN LINERS		
2 1/2-IN. POTTED LINERS	Each	100 1000
Juniper, Armstrong, 2-yr.	\$0.22 1/2	\$0.20
Juniper, Pfitzer	.21	.18 1/2
Juniper, Blue Pfitzer	.21	.18 1/2
Arborvitae, pyramidal	.19	.16 1/2
Arb. Berckmans' Biota,		
2-yr.	.17 1/2	.15
Taxus, Adams, 2-yr.	.22 1/2	.20
Taxus andersoni	.19	.16 1/2
Taxus cuspidata	.19	.16 1/2
Taxus hicksi	.19	.16 1/2
Taxus hatfieldi	.19	.16 1/2
Taxus media	.19	.16 1/2
Taxus media No. 8	.21	.18

FIELD-GROWN LINERS, from pots and transplanted to nursery row.		
Juniper, Armstrong, 2-yr.	.35	.30
Juniper, Pfitzer, 1-yr.	.27 1/2	.22 1/2
Juniper, Blue Pfitzer, 1-yr.	.27 1/2	.22 1/2
Arb. Woodward Globe, 1-yr.	.27 1/2	.22 1/2
2-yr.	.30	.25
3-yr.	.35	.30
Arm. Woodward Globe, 1-yr.	.27 1/2	.22 1/2

ROOTED CUTTINGS, heavy rooted cuttings in lath house, ready now.		
Juniper, Pfitzer	.12	.11
Taxus, Adams	.11	.10
Taxus browni	.10	.09
Taxus cuspidata	.10	.09
Taxus hicksi	.10	.09
Taxus media	.11	.10

TERMS: Cash with order, free packing.
300 plants of a variety at 1000 rate.
Special quotations on large quantities.

VOGE NURSERY
New Lebanon, O.

CHRISTMAS TREE PLANTING STOCK

	Per 100	Per 1000
SCOTCH PINE, French strain, deep green		
2-yr. seedlings, 2 to 4 ins.	\$ 2.00	\$ 10.00
2-yr. seedlings, 4 to 8 ins.	5.00	25.00
2-yr. seedlings, 15 to 20 ins.	6.00	30.00
2-2 transplants, 8 to 14 ins.	15.00	75.00
SCOTCH PINE, Spanish strain, excellent blue-green.		
2-yr. seedlings, 2 to 4 ins.	2.00	10.00
2-yr. seedlings, 4 to 8 ins.	5.00	25.00
SCOTCH PINE, Highland strain		
2-yr. seedlings, 15 to 20 ins.	6.00	30.00

AMERICAN RED PINE

2-yr. seedlings, 2 to 4 ins.	3.00	15.00
------------------------------	------	-------

AUSTRIAN PINE

2-yr. seedlings, 4 to 6 ins.	4.00	20.00
------------------------------	------	-------

SITKA SPRUCE

5-yr. seedlings, 18 to 24 ins.	5.00	25.00
--------------------------------	------	-------

COLORADO BLUE SPRUCE

2-yr. seedlings, 2 to 4 ins.	5.00	25.00
------------------------------	------	-------

3-yr. seedlings, 8 to 15 ins.	9.00	45.00
-------------------------------	------	-------

2-2 transplants, 6 to 10 ins.	14.00	70.00
-------------------------------	-------	-------

WHITE SPRUCE

2-yr. seedlings, 5 to 10 ins.	6.00	30.00
-------------------------------	------	-------

3-yr. seedlings, 10 to 20 ins.	8.00	40.00
--------------------------------	------	-------

2-2 transplants, 10 to 12 ins.	10.00	50.00
--------------------------------	-------	-------

3-yr. seedlings, 10 to 20 ins.	8.00	40.00
--------------------------------	------	-------

DOUGLAS FIR

2-yr. seedlings, 5 to 10 ins.	8.00	40.00
-------------------------------	------	-------

3-yr. seedlings, 6 to 12 ins.	10.00	50.00
-------------------------------	-------	-------

2-2 transplants, 8 to 14 ins.	15.00	80.00
-------------------------------	-------	-------

All 3-yr. stock is root-pruned.
Order direct or write for complete list.

CLAIR JOHNSTON & SON NURSERIES

Box 148	Creekside, Pa.	
---------	----------------	--

CONIFEROUS EVERGREEN SEEDLINGS

	Per 100	Per 1000
--	---------	----------

Thuja occidentalis, 2-yr.		
---------------------------	--	--

2 to 4 ins.	\$2.50	\$15.00
-------------	--------	---------

Abies balsamea, native, 2-yr.		
-------------------------------	--	--

2 to 4 ins.	3.00	20.00
-------------	------	-------

Pseudotsuga taxifolia glauca (Rocky Mt.), 2-yr., 2 to 4 ins.	3.00	20.00
--	------	-------

2-yr., 4 to 6 ins.	4.00	30.00
--------------------	------	-------

Abies concolor, 2-yr., 2 to 4 ins.	4.00	30.00
------------------------------------	------	-------

Juniperus virginiana, seeds collected locally; 2-yr.		
--	--	--

2 to 4 ins.	3.50	25.00
-------------	------	-------

Pinus nigra, 3-yr., 4 to 6 ins.	4.00	30.00
---------------------------------	------	-------

Pinus resinosa, 2-yr.		
-----------------------	--	--

2 to 4 ins., native.	3.00	20.00
----------------------	------	-------

4 to 6 ins., native.	4.00	30.00
----------------------	------	-------

Pinus sylvestris, 2-yr.		
-------------------------	--	--

2 to 4 ins.	2.50	15.00
-------------	------	-------

4 to 6 ins.	3.50	25.00
-------------	------	-------

Picea mariana, 3-yr., 4 to 6 ins.	3.00	20.00
-----------------------------------	------	-------

Picea pungens glauca, from select seed, 2-yr., 2 to 4 ins.	3.00	20.00
--	------	-------

Picea 4 to 6 ins.	4.00	30.00
-------------------	------	-------

Picea engelmanni, 3-yr., 3 to 5 ins.	2.50	15.00
--------------------------------------	------	-------

Picea excelsa, 2-yr., 2 to 4 ins.	2.50	15.00
-----------------------------------	------	-------

3-yr., 4 to 6 ins.	3.50	25.00
--------------------	------	-------

Cash with order, F.O.B. Pembine, Wis.
Price list on request.

C. WILSON'S NURSERY, PEMBINE, WIS.

EVERGREEN LINERS AND CUTTINGS

ROOTED CUTTINGS

Pfitzer Juniper	100c	
-----------------	------	--

2 1/4-IN. POTTED

Pfitzer Juniper	20c	
-----------------	-----	--

Pfitzer Hetz Juniper	20c	
----------------------	-----	--

Yews	20c	
------	-----	--

TOWNSEND EVERGREEN NURSERY

S. Walnut St.	Hartford City, Ind.	
---------------	---------------------	--

ROOTED CUTTINGS AND LINERS

	Spring 1960	100 1000
Arborvitae, American, 6 to 8 ins.	\$0.10	\$0.09
Arborvitae woodwardi, 6 to 8 ins.	.10	.09
Juniper, Andorra, 6 to 8 ins.	.10	.09
Juniperus hetzi glauca, 6 to 8 ins.	.09	.08
Juniper, Irish, 6 to 8 ins.	.09	.08
Taxus, Anderson, 6 to 8 ins.	.11	.10
Taxus browni, 6 to 8 ins.	.11	.10
Taxus cuspidata nana, 6 to 8 ins.	.11	.10
Taxus cuspidata, 6 to 8 ins.	.09	.08
Taxus capitata (leaders), 6 to 8 ins.	.13	.12
Taxus hatfieldi, 6 to 8 ins.	.11	.10
Taxus hicksi, 6 to 8 ins.	.09	.08
Taxus intermedia, 6 to 8 ins.	.11	.10
Taxus wardi, 6 to 8 ins.	.11	.10

1-YR. TRANSPLANTS

Juniper, Irish	.15	.14
----------------	-----	-----

Taxus cuspidata	.18	.16
-----------------	-----	-----

2-YR. TRANSPLANTS

Juniper, Irish	.22	.20
----------------	-----	-----

Taxus cuspidata	.25	.24
-----------------	-----	-----

Taxus cuspidata nana	.26	.24
----------------------	-----	-----

Juniper, Hetz	.32	.30
---------------	-----	-----

Juniper, Irish	.28	.26
----------------	-----	-----

Taxus cuspidata	.33	.31
-----------------	-----	-----

Taxus hicksi	.34	.32
--------------	-----	-----

Taxus wardi	.36	.34
-------------	-----	-----

Cash with order, 3 per cent discount, 1/3 deposit with all orders, balance at shipping time, 300 of a variety at 1000 rate.

NEIDEL'S NURSERY

216 Park Ave.	Oil City, Pa.	
---------------	---------------	--

EVERGREENS

ROOTED CUTTINGS

	Each	100 1000
--	------	----------

Arborvitae, American, dark green, 6 to 8 ins.	\$0.10	\$0.09
---	--------	--------

Arborvitae, pyramidal, 6 to 8 ins.	.10	.09
------------------------------------	-----	-----

Arborvitae, globe, 4 to 8 ins.	.10	.09
--------------------------------	-----	-----

Juniper, Hetz, 6 to 8 ins.	.10	.09
----------------------------	-----	-----

Juniper, Pfitzer, 6 to 8 ins.	.10	.09
-------------------------------	-----	-----

Juniper, Savin, 6 to 8 ins.	.10	.09
-----------------------------	-----	-----

Juniper, Von Ehron, 6 to 8 ins.	.10	.09
---------------------------------	-----	-----

Juniper, Andorra, 6 to 8 ins.	.10	.09
-------------------------------	-----	-----

CANADA HEMLOCK
COLLECTED SEEDLINGS

	Per 100	Per 1000
6 to 9 ins.	\$ 5.00	\$ 30.00
9 to 12 ins.	8.00	70.00
12 to 18 ins.	15.00	120.00
18 to 24 ins.	30.00	.....

NURSERY-GROWN TRANSPLANTS

4 to 8 ins., 2-2	20.00	180.00
8 to 12 ins., 2-2	25.00	240.00
12 to 18 ins., 2-3	60.00	500.00
18 to 24 ins., 2-3	80.00	.....

Send for complete list of hardy native Ferns, wild flowers, trees, shrubs and Evergreens.

ISAAC LANGLEY WILLIAMS
Box AN Exeter, N. H.

JUNIPER GRAFTS

Varieties: Canaerti, keteleeri, burki, glauca, Dundee, Chinese columnaris, blue; cupressifolia, Pfitzer and hetzi. All on virginiana understock.

Price, 45¢ each, regardless of the number purchased.
Terms: One-fourth cash with order and the balance before shipping date. Boxing and packing at cost. All cash with order earns free boxing and packing.

WHEN BETTER GRAFTS ARE MADE, CRUME WILL MAKE THEM.

T. C. CRUME NURSERY
& LANDSCAPING CO.
Highway 42 Florence, Ky.
Phone ATlantic 3-2361

ROOTED CUTTINGS

Strong, true to type, rooted cuttings of the following:
Taxus varieties: Brown, kelseyi, hicksii, femina, wardi, Hill's dwarf pyramidal, dwarf erecta and cuspidata.

Hill's pyramidal and boothii Arborvitae. These are large cuttings, hormone treated and radiant heat grown, producing an abundance of strong roots.

\$10.00 per 100, \$90.00 per 1000.
Order today. Pay in May.
Plants ready May 20 to June 1.

Free packing for cash with order or June 1.

ARTLEY'S NURSERY
339 Cherry St. Montoursville, Pa.

ROOTED CUTTINGS

	Per 100	Per 1000
Arborvitae, oc. elegantissima	\$9.00	\$90.00
Arborvitae, oc. pyramidalis	9.00	.....
Arborvitae, oc. globe	9.00	.....
Juniper, Andorra	9.00	.....
Juniper, Hetz, blue	8.00	.....
Juniper, Pfitzer, green	9.00	.....
Chamaecyparis, Lawson, green	9.00	.....
Ilex crenata convexa	8.00	.....
Ilex crenata Hetz	8.00	.....
Ilex cr. rotundifolia	8.00	.....
Taxus cuspidata	9.00	.....
Taxus hicksii	9.00	.....
Buxus sempervirens (hardy)	8.00	.....

R.F.D. 2 CRUMINE NURSERY

Alliance, O.

EVERGREENS, LINERS

	Per 100	Per 1000
3-YR., T. FIELD	\$30.00	\$280.00
Taxus cuspidata	30.00	280.00
Taxus media andersonii	30.00	280.00
Taxus media browni	30.00	280.00
Taxus media hicksii	30.00	280.00

*Euonymus vegetus, 12 to 15 ins. 28.00 250.00

*Ilex convexa, 12 to 15 ins. 28.00 250.00

*Ilex rotundifolia, 12 to 15 ins. 28.00 250.00

SEEDLINGS

Cotoneaster divaricata, 10 to 15 ins. 12.00

*Suitable for canning or cash and carry.

HERMAN LOSELY & SON

Haskins Rd. Chagrin Falls, O.

QUALITY LINERS

	Per 100	Per 1000
Douglas Fir (blue), 5 to 12 ins., tr.	17.50	175.00
White Pine, 6 to 14 ins., tr.	17.50	175.00
Japanese Boxwood, 6 to 8 ins., tr.	17.50	175.00
Colorado Blue Spruce, 5 to 10 ins., tr.	20.00	200.00
Canadian Hemlock, 5 to 10 ins., tr.	20.00	200.00
Enkianthus camp., 8 to 12 ins., tr.	25.00	250.00
Ligustrum lucidum, 8 to 15 ins., tr.	25.00	250.00
Taxus (best varieties), 6 to 8 ins., tr.	27.50	275.00
Azalea mucronulatum, 6 to 10 ins., tr.	35.00	350.00
Pink Flg. Dogwood, 10 to 15 ins., tr.	75.00	750.00

Send for new spring list.

POSSUM HOLLOW NURSERIES

6909 Henley St. Philadelphia 19, Pa.

PINE, SPRUCE SEEDLINGS

	100	1000
Scotch Pine, 3-yr., 9 to 14 ins.	\$ 6.00	\$30.00
(French and Spanish strains)		
Colo. Blue Spruce, 4-yr.	8.00	50.00
6 to 12 ins.	6.00	35.00

Norway Spruce, 3-yr., 6 to 12 ins. 6.00 35.00

Juniperus glauca hetzi, 3-yr., 6 to 12 ins. 25.00

Spreading Jap. Yew, 3-yr., 5 to 10 ins. 30.00

Write for complete list.

PAINT CREEK NURSERIES

R. D. 1 Shippville, Pa.

EVERGREEN LINERS

Picea pungens glauca kosteriana.
Picea pungens glauca moerhousii.
Pot-grown grafts. May shipment.
\$110.00 per 100, \$500.00 per 500.

J. BLAAUW & CO., LINCROFT, N. J.

SPECIAL SPRING PRICE LIST

The finest: Taxus, Arborvitae, Junipers and broad-leaved liners and rooted cuttings.
2-yr., pot-grown stock, 7 to 9 ins., sheared, 20¢ to 25¢ each, per 1000 rate.
Heavy rooted cuttings, 1-yr.-old, 8¢ to 10¢, per 1000 rate.

NOTE: Write for price list with full line of potted stock and rooted cuttings. Bargain "get acquainted" offer on 250 2-yr. pot plants or 250 rooted cuttings. Special prices on large quantities. Samples free on request.
Call collect TIPP CITY, NO. 7-6398.
MIAMI NURSERY CO., TIPP CITY, O.

**EVERGREENS
FOR BROADLEAF AND
CONIFEROUS EVERGREEN LINERS.**

Please see our display ad on pages 22 and 23.

CARTWRIGHT NURSERIES
Collerville, Tenn.

ROOTED CUTTINGS

These cuttings were rooted summer, 1959.
Ilex convexa\$0.05
Ilex microphylla05
Ilex convexa, 2 1/2-in. pots15
Ilex rotundifolia, 2 1/2-in. pots15

1-YR. FIELD-GROWN LINERS
Andorra Juniper, bare-root10
Hetz Juniper, bare-root10
Von Ehrhorn Juniper, bare-root10
Savin Juniper, bare-root10

STRAIN & SONS NURSERY

Route 7 Athens, Ala.

ARBORVITAE

2-yr. transplants, field beds, heavy.
5000 Woodward globe25¢
5000 pyramidal25¢

100 lots and up.

See our ads under Evergreens, B&B and Shrubs and Trees.

NAGLE'S NURSERY

R. 2, Box 267 Decatur, Mich.

Phone GArlfield 3-3739

AUSTRIAN PINE SEEDLINGS

Surplus stock, Michigan state inspected, top-quality, 2-yr., Austrian Pine seedlings, 2 to 5 ins., \$10.00 per 1000, F.O.B. Bellaire. For prepaid shipment, add \$1.50 per 1000. Discount on large quantities.
Cash with order, please.

STROM'S EVERGREEN PLANTATION

Bellaire 28, Mich.

2-YR., HUSKY TRANSPLANTS

From open beds in N. W. Pa.

Euonymus coloratus\$20.00

Ilex crenata rotundifolia 23.00

PINE BROOK NURSERY

R. D. 2 New Wilmington, Pa.

Years of growing fine Evergreens.

CANADA HEMLOCK

Collected seedlings.
6 to 14 ins., \$50.00 per 1000.

SUNBURY AIRPORT NURSERY

P. O. Box 416 Sunbury, Pa.

Phone AT 6-2671

Evergreen seedlings, F.O.B. Pulaski

Scotch Pine 100 1000

French, 3-yr., 12 to 15\$6.00 \$30.00

French, 2-yr., 6 to 9 4.00 20.00

Spanish, 2-yr., 4 to 6 4.00 20.00

Herbst non-yellowing, 9 to 12 4.00 20.00

Austrian Pine, 3-yr., 10 to 15 6.00 30.00

Blue Douglas Fir (Colo.), 2-2, 10 to 15; Colo. Blue Spruce, 2-2, 10 to 12, 15c each.

Stupka Nursery, R. 1, Pulaski, Pa.

FROM OPEN FRAMES AND FIELD ROWS

100,000 Ilex burfordii, rooted cuttings4c

100,000 Ilex rotundifolia, rooted cuttings.4c

100,000 Wax Ligustrum (lucidum), rooted cuttings2 1/2c

20,000 Euonymus patens, 4 to 6 ins.3c

20,000 Euonymus patens, 2-yr. field5c

E. F. DUBOSE NURSERY

Huntsville, Ala.

PICEA OMORIKA

(Siberian Spruce)

The most beautiful, graceful and hardiest of all Spruces. 2-yr. seedlings, 8 to 12 ins., \$25.00 per 100.

PARMENTIER'S ROSES

Bayport, L. I., N. Y.

Phone Bayport 8-0811.

CHRISTMAS TREE SEEDLINGS

French and Spanish strains of Scotch Pine, 10 to 14 ins., \$20.00 per 1000; 5000 or more, \$15.00 per 1000; 4 to 8 ins., \$15.00 per 1000; 5000 or more, \$12.00 per 1000. Price list and planting guide free upon request.

BERKEY'S NURSERY, Spartansburg, Pa.

OVERSTOCK SALE

	100	1000	10,000 lots
Scotch Pine, 3-yr., 6 to 12 ins.	\$3.00	\$20.00	\$15.00
2-yr., 4 to 8 ins.	2.50	15.00	10.00

VERNON DALE NURSERY

R. D. 4 Meadville, Pa.

DAPHNE CNEORUM Each, 100 1000

Rooted cuttings, from sand\$0.14 \$0.12

Rooted cuttings, 2-in. bands20 .18

SUMMER HILL NURSERY, INC.

Madison, Conn.

FRENCH STRAIN SCOTCH PINE

Seedlings, well-rooted, 2-yr.-old, 2 to 5 ins. tall, 100, \$3.00; 1000, \$12.00; 5000, \$50.00.

Free packing, cash with order.

MELLINGER'S NURS., AN, North Lima, O.

EVERGREEN LINERS

Rooted cuttings, 1 and 2-yr. bedded stock of Taxus, Junipers and Arborvitae.

Write for detailed list.

J. BLAAUW & CO., LINCROFT, N. J.

EVERGREENS, B&B

ARE YOU LOOKING FOR LARGE SPECIMEN MATERIAL?

First-quality, heavy and sheared.

Taxus cuspidata, 3 1/2 to 5 ft.

Taxus cuspidata nana, 3 1/2 to 5 ft.

Taxus hicksii, 3 1/2 to 6 ft.

Taxus capitata, 5 to 9 ft.

Ilex hetzi, 30, 36 and 42 ins.

Ilex rotundifolia, 30, 36 and 42 ins.

Thuja elegantissima, 5, 6 and 7 ft.

Pinus nigra (Austrian), 4, 5, 6 and 7 ft.

Magnolia soulangeana, 6 to 9 ft.

Magnolia stellata, 6, 7 and 8 ft.

Euonymus alatus compactus, 5x5 and 6x6 ft.

Euonymus vegetus Sarcocoe, 30, 36 and 42 ins.

We have large plants in more varieties.

See or write.

FAIRVIEW FLORAL NURSERY

27819 Center Ridge Rd., U. S. 20

Westlake, O.

SHEARED STOCK, GOOD BALL

Biota aurea nana, 12 to 15 ins.\$0.80

Juniperus hibernica, 18 to 24 ins. 1.00

Juniperus excelsa stricta, 15 to 18 ins. 1.00

Taxus cuspidata, 12 to 15 ins. 2.00

Taxus media hicksii, 15 to 18 ins. 2.00

Thuja occ. globosa, 8 to 10 ins. 1.00

Thuja occ. pyramidalis, 15 to 18 ins. 1.00

Euonymus japonicus, 18 to 24 ins. 1.35

Forstythia spectabilis, 2 to 3 ft.60

Silver Maple, 6 to 8 ft. 1.35

Flowering Hopsa Crab, 4 to 5 ft. 1.50

Write for complete wholesale price list.

SO. JERSEY COLONIAL NURSERIES, INC.

Route 45, R. D. 1 Salem, N. J.

Phone YELlowstone 5-2366

JUNIPERS

3000 Andorra, 12 to 15, 15 to 18, 18 to 24 ins.

2000 Hetz, 15 to 18, 18 to 24 ins.

1000 Pfitzer, 12 to 15, 15 to 18 ins.

Some 3 to 4 ft.

ARBORVITAE

3000 Woodward globe, 12 to 15, 15 to 18 ins.

3000 nigra, 18 to 24, 24 to 30 ins.

1000 Pyramidal, 18 to 24 ins.

Other kinds in smaller lots. See our ads under Lining-out, Evergreens and Shrubs and Trees.

NAGLE'S NURSERY

R. 2, Box 267 Decatur, Mich.

Phone GArlfield 3-3739

EVERGREENS, B&B

Colo. Blue Spruce, sheared, 2 to 2 1/2 ft.\$3.00

2 1/2 to 3 ft., sheared 3.65

Norway and White Spruce, sheared, 2 to 2 1/2 ft. 2.15

White Spruce, sheared, 2 to 4 ft. 3.00

Douglas Fir, sheared, 2 to 2 1/2 ft. 2.35

4 to 5 ft., sheared 4.50

Scotch Pine, sheared, 2 to 2 1/2 ft. 2.35

Sweet Gum, good heads, 1 1/2 to 1 1/2 ins. 3.50

Red Maple, good heads, 1 1/2 to 2 ins. 4.00

2 to 2 1/2 ins. 5.00

W. V. GRIFFIN

8 Elizabeth Ave. East Brunswick, N. J.

(Near Herberts Corner) Phone CL 7-2484

EVERGREENS

AMERICAN RED PINE

2 to 3 3 to 3 1/2 3 1/2 to 4 4 to 4 1/2 4 1/2 to 5

EVERGREENS, B&B—Continued

ARBORVITAE NIGRA	
24 to 30 ins.	\$2.25
30 to 36 ins.	2.75
36 to 42 ins.	3.25
42 to 48 ins.	3.75
TAXUS THAYERAE	
18 to 24 ins.	3.50
24 to 30 ins.	4.50
WICK'S NURSERIES	
Main Rd.	Jamesport, L. I., N. Y.

5000 NORWAY RED PINE

2 1/2 TO 3 1/2 FT.
\$1.00 EACH.

TREESCAPE FARMS, DEXTER, ME.

NORWAY SPRUCE

Well-sheared, full, heavy trees, good color.	
Each, 1-30	30 up
2 to 3 ft., B&B	\$2.75 \$2.50
3 to 4 ft., B&B	3.75 3.50
4 to 5 ft., B&B	4.75 4.50
Row-run and you dig your own, \$2.50 each.	

PAUL'S NURSERY

R. D. 3	Shelby, O.
EVERGREENS, B&B	
1700 Hetz Juniper, 15 to 18 ins.	\$1.75
2200 Hetz Juniper, 18 to 24 ins.	2.00
2900 Hetz Juniper, 2 to 2 1/2 ft.	2.50
These are compact. All real beauties.	
Phone evenings, 395.	
WHERRY'S NURSERIES, ST. MARYS, W.VA.	

SPECIMEN DOUGLAS FIR

4 times transplanted, average 7 ft., \$25.00 each. B&B. Also Yew, Pfitzer and Andorra Junipers, Holly and Pines. 50 miles S. E. of Chicago. Phone Lowell 3514.

THE EVERGREEN NURSERIES
Hebron, Ind.

Red and White Pine	Each	Each, 100
2 to 3 ft., B&B, sheared	\$2.25	\$2.00
3 to 4 ft., B&B, sheared	2.75	2.50
4 to 5 ft., B&B, sheared	3.25	3.00
Some 4 to 5 ft., red, No. 2	2.25	2.00
Phone LY 3-5135		
Sunnyvale Nursery, Box 85, Athens, O.		

3000 COLORADO SPRUCE

4 to 8 ft., shiners to green.
Dig your own, \$1.50 per ft.
BAY ROAD EVERGREENS
2865 Schust PI 3-8552 Saginaw, Mich.

EVERGREENS, Miscellaneous

EVERGREENS
Large assortment varieties and sizes.
Submit list for special quotations.
WAYNESBORO NURSERIES
Waynesboro, Va.

Taxus, Ilex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.

Del-Mar-Va Nurseries, Box 3, Lincoln, Del.
Small Ads Do Great Things in the American Nurseryman Classified Section.

EUONYMUS**EUONYMUS LINERS**

	Per 100	Per 1000
ROOTED CUTTINGS from open frames		
E. coloratus	\$ 6.50	\$ 45.00
E. patens	7.00	50.00
E. patens, small leaf	7.00	50.00
E. radicans upright, Sarcocoe	8.00	60.00
2-YR. TRANSPLANTS		
E. coloratus	33.00	280.00
E. radicans upright, Sarcocoe	35.00	300.00
3-YR. TRANSPLANTS		
E. radicans upright, Sarcocoe	55.00	500.00
FOX NURSERY, HUMANSVILLE, MO.		

EUONYMUS

E. alatus compactus, 2-yr., T.	Each, 100	1000
9 to 12 ins.	\$0.30	\$0.25
3-yr., T, 12 to 18 ins., br.	.45	.40
Suitable for mail order.		

C. HOOGENDOORN

WHOLESALE NURSERYMAN
413 Turner Rd. Newport, R. I.

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads.

FRUIT AND NUT TREES**FRUIT TREE STOCK**

For early spring delivery.
East Malling type No. 7.
Transplanted layers, home-grown.
\$100.00 per 100.
F.O.B. Lincoln Park, N. J.
No packing charge.
Sample on request.
LINCOLN PARK NURSERIES
Lincoln Park, N. J.

SPECIAL CLEANUP SALE**ON FRUIT TREES**

50 at 100 rate.

PEARS	
3 to 4 ft., 7/16-in., branched	Each \$0.50
4 to 5 ft., 9/16-in., branched	.60
5 to 6 ft., 11/16-in., branched	.70
Kieffer	Early Harvest
Bartlett	Seckel
Pineapple	LeConte
PEACHES, DORMANT, BUDDED	
18 to 24 ins.	\$0.20
2 to 3 ft., 5/16-in.	.25
3 to 4 ft., 7/16-in.	.30
4 to 5 ft., 9/16-in.	.40

Elberta	Hiley Belle
Dixigem	Mayflower
Dixired	Sullivan's Early
Halehaven	Elberta
Golden Jubilee	J. H. Hale
Redhaven	Belle of Georgia

No charge for packing when money received with order. Write for special prices on other items.

GILMORE PLANT & BULB CO.
Julian, N. C.

PECAN TREES, PAPER-SHELL

The nation's finest quality paper-shell Pecan trees. Vigorous, heavy calliper, smooth trees, grown under irrigation. All staked and trimmed for best appearance. Machine dug with the whole fibrous root system intact. Free, four-color Point of Purchase banners showing in life-like color, all varieties. Free planting guide for your customers. Order now while selections are complete. Varieties available: Stuart, Success, Mahan, Garner, Western Schley, Burkett. Write for prices on packaged trees in attractive four-color bags.

PRICES, BARE-ROOT TREES

1 to 2 ft.	\$0.50	\$0.100	\$0.500
2 to 3 ft.	\$0.90	\$0.85	\$0.80
3 to 4 ft.	1.30	1.25	1.20
4 to 5 ft.	1.45	1.40	1.35
5 to 6 ft.	1.85	1.80	1.75
6 to 7 ft.	2.35	2.30	2.20
	3.30	3.20	3.10

Box 2000 Stephenville, Tex.

GARDEN ROOTS**RHUBARB**

1000 No. 1 divisions MacDonald Red, \$15.00 per 100. 500 1/2 to 2-in. Victoria roots, \$6.00 per 100. Valentine, 100, \$20.00; Chipman's Red, 100, \$20.00.

Packing free when check is sent with order.

HANSON'S EVERGREEN NURSERIES
P. O. Box 582 Anoka, Minn.

RHUBARB

TRUE CHIPMAN'S CANADA RED
Freshly cut divisions, \$15.00 per 50, \$25.00 per 100, \$220.00 per 1000. Can ship immediately or later. Express or motor freight.
C. D. WRIGHT, HAMBURG, IA.

THREE RED RHUBARBS
Chipman's Canada Red, MacDonald Red, Valentine Red, No. 1 divisions.
CHAPMAN'S BERRY FARM
East Leroy, Mich.

GERANIUMS

100,000 rooted cuttings from greenhouse stock, most varieties, \$11.00 per 100, \$100.00 per 1000. Unlimited quantity, 2 1/4-in. Jiffy-Potted, bedding GERANIUMS, ready May through June, \$150.00 per 1000. Pick up.
Order now through your broker or direct.
SAELTZER GREENHOUSE, INC.
25039 Center Ridge Rd. Westlake, O.
Phone TR 1-1515

QUALITY GERANIUM CUTTINGS
Unrooted, \$4.50 per 100, \$40.00 per 1000; rooted, \$8.50 per 100, \$80.00 per 1000. Special varieties slightly higher. Catalog of over 150 leading varieties free.
C. SECRETIST, MUSCATINE, IA.

GRAFTING STOCK

GRAFTING STOCK Each, 100 1000
Viburnum dentatum, 2-yr., strong seedlings \$0.09 \$0.07 1/2
C. HOOGENDOORN, NURSERYMAN
408 Turner Road Newport, R. I.

GROUND COVERS

HARDY MYRTLE (Vinca minor)
20 to 30 leads, \$8.00 per 100, \$50.00 per 1000; 2500 and up, \$45.00 per 1000.
Euonymus coloratus, heavy rooted cuttings, \$6.00 per 100, \$50.00 per 1000.
English Ivy, rooted cuttings, \$6.00 per 100, \$50.00 per 1000.
VAUGHAN'S NURSERY
R. R. 2, 15910 Cleveland Rd., Granger, Ind.
Phone So. Bend, CE 3-3318

GROUND COVERS

Myrtle (Vinca minor), hardest Ohio creeping periwinkle-blue flower, nursery-grown; 20 to 25 lead made-up clumps, \$50.00 per 1000. Prompt shipment. Bowles variety, 20 to 35-cane clumps, \$90.00 per 100. Pachysandras, 1-yr. rooted cuttings, 8 to 10 ins., \$50.00 per 1000. Hedera helix (Eng. Ivy), 1-yr. rooted cuttings, \$50.00 per 1000. Boston compacta Fern, 2-yr., \$12.00 per 100. Cinnamon Fern, Christmas Fern, New York Fern, large clumps, \$9.00 per 100. Honeyauclia, 3-yr., branched and standardized for landscaping larger areas, \$45.00 per 1000. Can furnish above in pictured display cartons for garden center sales.

IVY DALE NURSERY

Upper River Rd. Gallipolis, O.
Hardy Myrtle (Vinca minor), plants with 20 leads or more and good roots, \$5.00 per 100, \$45.00 per 1000. Pachysandras, sand-rooted cuttings, \$40.00 per 1000. English Ivy, sand-rooted cuttings, \$40.00 per 1000. Cash. Also potted stock of all items listed.
Samuel I. Minder, 1248 Wabank Rd., Lancaster, Pa. Phone EX 3-6347.

TRUE EUONYMUS RADICANS

20c each.

ENGLISH IVY

Large or small leaved, 12 1/2c each. Plants well established from 2 1/4-in. pots.
TRITTSCHLER'S NURSERY
P. O. Box 7624, 4425 West Lawn Dr.
Nashville 9, Tenn.

VINCAS, MINOR, RUBRA AND BOWLES
THE 3 NEWEST, BEST IVIES.
PACHYSANDRAS, soil rooted cuttings. These and others in a descriptive list.
THE JOSEPH F. MARTIN CO., INC.
Box 189 Painesville, O.

HARDY PLANTS

HARDY FIELD-GROWN PERENNIALS
Aquilegia, separate colors; Arabis, Adonis, Aubrietia, Campanula, Carnations, Chives, Coreopsis, Delphinium Pacific Hybrids, 10 separate colors; Dianthus, Dicentra spectabilis, Digitalis, Doronicum, Gaillardia, Geums, Gypsophila, English Lavender, Lythrum, Russell Lupines, Myosotis, Phlox subulata, 15 varieties; Poppy Iceland, Pyrethrum (Daisies), Shasta Daisy, Sedum, 10 varieties; Sweet Williams, Tritomas, Violas and Violets.

GEORGE FRANK & SON
Penfield, N. Y.

PERENNIALS

of

HIGH QUALITY

for

SATISFIED CUSTOMERS.

Write for free catalog listing over 500 varieties.

SPRINGBROOK GARDENS, INC.
Mentor, O.

POLYGONUM REYNOUTRIA

(Fleece Bush)

	25	100	1000
Strong divisions	\$4.75	\$17.50	\$150.00
FUNKIA SUBCORDATA GRAND, ALBA (Plantain Lily)			
Strong divisions	\$15.00	\$55.00	....
GYPSOPHILA BRISTOL FAIRY			
1-yr., No. 1 grade	\$13.00	\$50.00	....

THE FLOWER FARM

1209 Leuhm Ave. East McKeesport 9, Pa.

HARDY PLANTS, SAND-GROWN

New wholesale list available.

Many new varieties.

Can make immediate shipment.
No. 1 plants and potting stock, surplus items. Canterbury Bells, Digitalis, Delphinium, Artemisia, Carnations, Matricaria, Pyrethrum, mixed; Teucrium.

Box AN Plainwell, Mich.

GYPSOPHILA BRISTOL FAIRY

2 1/4-in. pot plants, GRAFTED

Per doz. Per 100 Per 1000

\$4.00 \$25.00 \$225.00

25 at 100 rate; 250 at 1000 rate.

BLUE ACRE GARDENS

R. 2, Box 185 Piqua, O.

HARDY PLANTS

Wholesale growers of Phlox, outdoor Chrysanthemums and a large assortment of other perennial plants.

Write for trade list.

WALTERS GARDENS

R. R. 2 Zeeland, Mich.

America's best source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

HARDY FERNS (DORMANT ROOTS)
Ostrich, Clayton, Lady and Maidenhair.
\$10.00 per 100, \$80.00 per 1000.
STRAND NURSERY
Taylors Falls, Minn.

12 named varieties of hardy, giant, hybrid Hibiscus; 15 varieties of hardy Liriope and our new All Summer Beauty hardy Hydrangea. Riegel Plant Co., Experiment, Ga.

PITZONKA'S FIELD-GROWN PERENNIALS
Write for trade list.
PITZONKA'S PANSY FARM & NURSERY
Bristol, Pa.

WELLER'S BETTER PERENNIALS.
WELLER NURSERIES CO., Holland, Mich.
Write for trade list.

SPECIALISTS IN HARDY PERENNIALS
Ask for wholesale offer.
PEARCE SEED CO., Moorestown, N. J.

HEATHERS

HARDY HEATH AND HEATHER LINERS
Price list on request.
AVALON MOUNTAIN GARDENS, Dana, N.C.

HEMEROCALLIS

Hemerocallis, send for list of high quality stock at reasonable prices. 300 varieties, among the best, old and new.
Riegel Plant Co., Experiment, Ga.

HEMEROCALLIS
Send for wholesale list.
MIDDLEBEN PLANTATION
Orangeburg, S. C.

Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

HOLLY

ILEX ROTUNDIFOLIA

Thousands of splendid pruned plants.

15 to 18 ins.	.....\$1.85
18 to 24 ins.	..... 2.35
24 to 30 ins.	..... 3.35
2 1/2 to 3 ft.	..... 4.50

100 or more, 10 per cent discount.

Send for spring list, Azaleas, Crabs, broad-leaved Evergreens, etc.

THE TANKARD NURSERIES
Exmore, Virginia

ILEX OPACA

Northern varieties	Each
2 to 3 ft., 5-yr., in field	.....\$ 5.00
3 to 4 ft., 5-yr., in field	..... 7.50
4 to 5 ft., 5-yr., in field	..... 10.00
Lighter plants, 4-yr., in field	..... \$3.50, \$5.00 and \$7.50.

SIMPSON ORCHARD CO., INC.
1504 Wheatland Rd., Vincennes, Ind.
Phone TU 2-2441

Native American Holly cuttings, from finest unnamed stock in Gloucester Co. Rooted January 1. 4000 ready to go in 2 1/2-in. peat pots or 2 1/2-in. bands, if you hurry, also bare-root. Order now and we will hold plants until first growth flush is complete. 5000 Taxus cuttings ready in May. Write, or phone TULIP 1-3276.

Carl Wagner & Sons Nursery, R. F. D., Monroeville, N. J. 1/2 mi. south Aura, N. J.

CONTAINER-GROWN PLANTS

ILEX, OUR SPECIALTY.

1-gal. size, 80c each.

2-gal. size, \$1.65 each.

Convexa, rotundifolia, burfordi and helleri.

Send for list.

TILLMAN NURSERY

Indiana Highway 662 Newburgh, Ind.
Phone UL 3-8649

DWARF HOLLY

ILEX CRENATA HELLERI Per 1000

2 1/2-in. pots\$150.00

ILEX VOMITORIA NANA Per 1000

2 1/2-in. pots\$175.00

BRANCHED HEATHY

COTTAGE HILL NURSERY, LTD.

4000 Japonica Lane Mobile, Ala.

ILEX OPACA

SUPERIOR NAMED VARIETIES

WHOLESALE SUPPLIERS

OF LINING-OUT STOCK

Write for our price list.

HOLLY HAVEN, INC.

Box 75 New Lisbon, N. J.

HOLLY

English, Silver variegated.

2 1/2-in. pots, 8 to 10 ins. tall, 35c.

Ready now. Cash with order, please.

KRUSCHKE GREENHOUSES

Clackamas, Ore.

HONEYSUCKLES

HONEYSUCKLES

Lonicera japonica, halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in. field plants. 3, 4 to 6 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample, 100, \$4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone OR 2-4612.
ROBINSON NURSERY CO., Greenville, Ga.

IRISES

IRISES

Send for our 1960 wholesale list.
SMITH'S IRIS GARDENS
Box 483 Lewiston, Idaho

Japanese Iris (kaempferi), large blooming size divisions. Assorted colors, labeled, \$2.50 per 10, \$20.00 per 100, prepaid.
Vance Wilson, R. 3, Savannah, Ga.

IVIES

BALTIC IVY

Hardest ivy. Fine for wall or ground cover. True stock. Well-rooted plants.
Rotted cuttings\$ 7.00 \$ 65.00
2-in. pots 12.50 115.00

NEW THORNDALE IVY
2 1/2-in. pots\$25.00 per 100
Euonymus kewensis. 2-in. pots. 20.00 per 100
EUONYMUS VEGETUS
2-in. pots, \$12.00 per 100, \$110.00 per 1000.
2-yr. field-grown, \$35.00 per 100.

STRATFORD GARDENS
Russel Breese, M. R. 9 Delaware, O.

ENGLISH IVY (HEDERA HELIX)
Our super quality large-leaved strain.
Approved landscape architects' standards.
Order now! Ready for immediate shipment.
Strong 5 to 7-in. cuttings from field plants, \$6.00 per 100, \$55.00 per 1000.

BABCOCK GARDENS, R. 3, Jamestown, N.Y.

LAWN GRASS AND SEED

"PURE KY." BLUE GRASS LAWN SEED
Grown on our farm with the thought of beauty of your lawn in mind. It's satisfying to sow and sell this "Thoroughbred Seed." 10 lbs., \$7.00; 25 lbs., \$15.00; 50 lbs., \$27.50; 100 lbs., \$50.00. F.O.B. here, subject to market price change, or unsold.

WALNUT LAWN FARM
Route 2 Lexington, Ky.

PURE MARION BLUE GRASS SOD
Loaded on truck at nursery, 40c per sq. yd.
SUNNYVALE NURSERY
Box 85 Athens, O.

Phone LY 3-5135

LILACS

HUNGARIAN LILAC (HENRY LUTECE)
4 to 5 ft., 60c; 100, \$50.00.
SHAW BALTIC NURSERY
9650 Carnegie Ave. Cleveland, O.

LINING-OUT STOCK

LINING-OUT STOCK

Per 100 Per 1000
Andromeda japonica, transplanted cuttings\$17.50 \$150.00
Tegua canadensis, 3-yr. seedlings, 6 to 9 ins. 16.00 150.00

ROOTED CUTTINGS FROM SAND

Ilex convexa bullata	..... 9.00	80.00
Ilex convexa hetzi	..... 11.00	100.00
Ilex rotundifolia	..... 9.00	80.00
Taxus andersonii	..... 11.00	100.00
Taxus brownii	..... 11.00	100.00
Taxus brevifolia	..... 15.00	125.00
Taxus cuspidata	..... 10.00	80.00
Taxus cuspidata nana	..... 11.00	100.00
Taxus densiformis	..... 15.00	125.00
Taxus hatfieldii	..... 11.00	100.00
Taxus henryi	..... 15.00	125.00
Taxus hickii	..... 10.00	80.00
Taxus hunnewelliana	..... 11.00	100.00
Taxus intermedia	..... 11.00	100.00
Taxus Moon's columnaris	..... 15.00	125.00
Taxus ovata	..... 11.00	100.00
Taxus repandens	..... 11.00	100.00
Taxus veruculeni	..... 11.00	100.00
Taxus wardii	..... 11.00	100.00

TAXUS CUSPIDATA CAPITATA

Seedling-grown	100	1000	10,000
1-yr.	.....\$ 6.00	\$ 50.00	\$ 450.00
2-yr.	..... 10.00	90.00	750.00
3-yr.	..... 17.50	150.00	1250.00
4-yr., X	..... 30.00	250.00	2250.00

We can also supply most of the varieties mentioned in 1-yr. bedded and 2-yr. field beds, grown in the open.

Special quantity prices on orders of 10,000 up.

In our list, we have a complete line of pot grafts, seedlings, cuttings and transplants. List sent upon request.

NURSERY SALES, INC.

P. O. Box 295 Ridgewood, N. J.

Associates of Peninsula Nurseries, Inc.

Melfa, Va.

EVERGREENS

Andorra Juniper, 6 to 8 ins., bare-root...\$0.05
Blue Hetz Juniper, 6 to 8 ins., bare-root .05
Buck Juniper (upright), 6 to 10 ins., bare-root 12
Compact Pfitzer Juniper (Nick's), 6 to 8 ins., bare-root08
Savin Juniper, 6 to 8 ins., bare-root06
Pfitzer Juniper, 6 to 10 ins., bare-root06
Pfitzer Juniper, plant bands16
Spreading Jap. Yew (Taxus cuspidata), 2-yr. plant bands20
Von Ehron Juniper, 6 to 10 ins., bare-root06

DECIDUOUS, BARE-ROOT

Forsythia Arnold's Dwarf, very dwarf, 5 to 6 ins.08
Forsythia Arnold's Giant, 5 to 6 ins.07
Forsythia Beatrix Farrand, 8 to 12 ins.06
Forsythia Lynwood Gold, 8 to 12 ins.04
Forsythia nana compacta, 6 to 8 ins.04
Forsythia Spring Glory, 8 to 12 ins.04
Hypericum Hidcote, 8 to 12 ins.04
Hypericum Kalmianum, 8 to 12 ins.04
Clavey's dwarf bush Honeysuckle, 10 to 12 ins.04
Privet, golden vicari (all yellow), 6 to 8 ins.06
Privet, Lodense, 6 to 10 ins.04
Privet, Regels, 8 to 10 ins.04
Weigela rosea, 8 to 12 ins.04

BROADLEAFS

Euonymus carrierei, a small leaf patens, 8 to 10 ins.04
Euonymus coloratus, 8 to 10 ins.04
Euonymus patens Flagpole, small leaf, 8 to 10 ins.04
Euonymus patens, large leaf, 8 to 10 ins.04
Euonymus patens Newport, medium leaf, 8 to 10 ins.04
Euonymus patens Owen, small leaf, 8 to 10 ins.04
Euonymus radicans erectus, a small leaf patens, 8 to 10 ins.04
Euonymus patens Rosehill, medium leaf, 8 to 10 ins.04
Euonymus radicans, upright (Sarcoxie), 5 to 6 ins.07
Pyracantha Kasaan, heavy berried and some dwarfier than landl. Hardy in Iowa, 5 to 8 ins.05
Pyracantha landl., 5 to 8 ins.05
Pyracantha pauciflora, dwarf, round, shiny leaved, very dense bush. Hardest of all. For heavy berries, plant a Kasaan or landl. close by. 5 to 6 ins.05

PERENNIALS

Tuecrum chamaedrys, 5 to 6 ins.04
Book your order for spring shipment. Less than 300 total order, 2c more per plant. Less than 50 of any item, 4c more per plant.
MCININCH GREENHOUSES
St. Joseph, Mo.

POT-GROWN GRAFTS

All our understocks are potted up during the spring, grown in frames in pots all summer and grafted the following winter, ensuring the best root system to be grown and assures minimum losses.

*Acer palmatum atropurpureum	.....\$ 75.00
*Carpinus betulus fastigiata	..... 60.00
Cedrus atlantica glauca	..... 75.00
Cedrus atlantica aurea	..... 100.00
*Cornus florida rubra	..... 65.00
*Cornus florida rubra Proussier	..... 65.00
*Cornus florida pendula	..... 60.00
*Cornus florida flore-plena	..... 60.00
*Cornus florida welchi var.	..... 65.00
*Cornus kousa chinensis	..... 60.00
*Cornus kousa speciosa	..... 60.00
*Hamamelis mollis	..... 60.00
*Hamamelis brevifolia	..... 100.00
Fagus sylvatica Tricolor	..... 75.00
*Fagus sylvatica riveral	..... 60.00
*Fagus sylvatica pendula	..... 60.00
*Fagus sylvatica heterophylla	..... 60.00
*Fagus sylvatica fastigiata	..... 60.00
*Magnolia stellata	..... 75.00
*Magnolia stellata rubra	..... 75.00
*Magnolia stellata Waterlily	..... 75.00
Magnolia yulan	..... 75.00
Magnolia cordata (yellow)	..... 75.00
Picea pung. glauca moerheimi	..... 100.00
Pinus cembra	..... 60.00
Pine, Tanyosho	..... 60.00
*Viburnum carlesii	..... 50.00
Viburnum juddii	..... 50.00
Viburnum burkwoodii	..... 50.00
Viburnum chenaultii	..... 50.00

Varities marked with a star can be supplied in 1-yr., field-grown bedded plants, at \$15.00 per 100 extra above the pot-grown grafts.

VERKADE'S NURSERIES, WAYNE, N. J.

L. I. GROWN LINING-OUT STOCK

2-yr.-old, lath-grown and sheared
800 Taxus thayerae cusp., 8 to 10 ins.\$35.00
1500 Taxus hickii, 8 to 10 ins. 35.00
500 Taxus capitata, 10 ins. 40.00
2000 Taxus intermedia cusp., 8 to 10 ins. 35.00
3200 Hetz Juniper, 10 to 12 ins. 35.00
2000 Pieris japonica, 12 to 14 ins. 50.00
2000 Ilex convexa bullata, 9 to 10 ins. 40.00
900 Ilex crenata, 9 to 12 ins. 40.00
500 Juniperus kelseyi\$0.35 each
1000 Hybrid Rhododendrons 1.50 each
400 Ilex opaca75 each

BRAND'S NURSERY

912 Park Ave. Huntingdon, L. I., N. Y.
Phone HAMILTON 3-2456

LINING-OUT STOCK—Continued

LINING-OUT STOCK		
Bedded 1-yr. in the open.	100	1000
Ilex convexa	\$20.00	\$180.00
Ilex rotundifolia	20.00	180.00
Ilex hetzi	20.00	180.00
Juniperus pfitzeriana	20.00	180.00
Juniperus hetzi	20.00	180.00
Taxus andersoni	20.00	175.00
Taxus brevifolia	20.00	175.00
Taxus capitata, cutting-grown	25.00	225.00
Taxus capitata Adams,		
cutting-grown	25.00	225.00
Taxus canadensis stricta	15.00	150.00
Taxus cuspidata	17.50	150.00
Taxus hatfieldi	17.50	150.00
Taxus hunnewelliana	17.50	150.00
Taxus hicksii	17.50	150.00
Taxus intermedia	17.50	150.00
Taxus henryi	20.00	175.00
Taxus densiformis	20.00	175.00
Taxus vermiculata	17.50	150.00
Taxus wardii	17.50	150.00
Taxus Moon's columnaris	20.00	175.00
Taxus browni	17.50	150.00

2-yr. bedded in the open.		
Ilex convexa, 6 to 9 ins.	\$25.00	\$200.00
Ilex rotundifolia, 6 to 9 ins.	25.00	200.00
Ilex hetzi, 6 to 9 ins.	25.00	200.00
Taxus Adams col., 12 to 15 ins.	50.00	450.00
Taxus Moon's col., 8 to 12 ins.	30.00	250.00
Taxus cuspidata, 6 to 9 ins.	30.00	250.00
Taxus hatfieldi, 6 to 9 ins.	30.00	250.00
Taxus cuspidata comp.,		
6 to 9 ins.	30.00	250.00
Taxus hunnewelliana, 6 to 9 ins.	30.00	250.00
Taxus browni, 6 to 9 ins.	30.00	250.00
Taxus intermedia, 6 to 9 ins.	30.00	250.00

TAXUS CAPITATA, SEEDLING-GROWN		
1-yr. seedlings	\$ 6.00	\$ 50.00
2-yr. seedlings	10.00	90.00
3-yr. seedlings	17.50	150.00
4-yr. seedlings, trans-		
planted, 6 to 10 ins.	30.00	250.00

CORNUS FLORIDA (WHITE DOGWOOD)		
1-yr., No. 1 grade	\$ 6.00	\$ 50.00
1-yr., No. 2 grade	5.00	40.00
1-yr., No. 3 grade	4.00	30.00
2-yr., No. 1 grade	12.50	100.00
2-yr., No. 2 grade	10.00	90.00
2-yr., No. 3 grade	9.00	75.00

Special prices on large quantities.
Full list on demand.

VERKADE'S NURSERIES, WAYNE, N. J.

GOLDEN GOOSE LINERS

For immediate delivery or for reservation. All quotations are for beautiful lining-out stock from 2 1/2-in. pots, grown in open beds, under field conditions and ready for field planting.

	Each
Ilex cornuta burfordi, 8 to 10 ins.	12c
Ilex cornuta burfordi, 6 to 8 ins.	10c
Ilex cornuta femina, 8 to 10 ins.	12c
Ilex cornuta femina, 6 to 8 ins.	10c
Ilex crenata rotundifolia, 10 to 12 ins.	12c
Ilex crenata rotundifolia, 8 to 10 ins.	10c
Ilex crenata rotundifolia, 6 to 8 ins.	8c
Ilex crenata bullata convexa, 4 to 6 ins.	10c
Ligustrum lucidum compactum	
(Griffings Black Wax), 8 to 10 ins.	12c
Ilex opaca femina, 10 to 12 ins.	25c
Ilex opaca femina, 8 to 10 ins.	20c
Mahonia bealei, 6 to 8 ins.	12c
Buxus harlandi, 6 to 8 ins.	10c
Buxus japonica, 6 to 8 ins.	10c
Pyracantha yunnanensis, 6 to 8 ins.	18c
Euonymus radicans, 8 to 10 ins.	8c

Our Hollies are grown from either cuttings or grafts, from well-berried specimens, ensuring berries for you.

This stock guaranteed 100 per cent satisfactory or return for full refund.

TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES

Poplar Pike
Germantown, Tenn.

LINING-OUT STOCK

	Per 100
Magnolia alexandrina, pots	\$20.00
Magnolia leneel, pots	20.00
Magnolia conspicua, pots	25.00
Magnolia conspicua, 8 to 12 ins.	25.00
Magnolia grandiflora, pots	15.00
Magnolia grandiflora, 3 to 6 ins.	10.00
Magnolia stellata, pots	20.00
Magnolia stellata, 6 to 8 ins.	12.00
Pyramidal English Oak, 8 to 12 ins.	20.00
Scarlet Oak, 4 to 8 ins.	10.00

THE R. L. HAAG NURSERIES
Jeffersontown, Ky.

FROM OPEN FRAMES AND FIELD ROWS
100,000 Ilex burfordi, rooted cuttings. 4c
100,000 Ilex rotundifolia, rooted cuttings. 4c
100,000 Wax Ligustrum (lucidum),
rooted cuttings

20,000 Euonymus patens, 4 to 6 ins. 2 1/2c
20,000 Euonymus patens, 2-yr. field 8c
E. F. DuBOISE NURSERY
Huntsville, Ala.

LINING-OUT STOCK

	Per 100	Per 1000
Gardenia fortunei, 8 to 12 ins.	\$12.00	\$110.00
Gardenia fortunei, 12 to 18 ins.	15.00	140.00
Gardenia Mystery, 8 to 12 ins.	12.00	110.00
Gardenia Mystery, 12 to 18 ins.	15.00	140.00
Gardenia radicans, 6 to 8 ins.	12.00	110.00
Gardenia radicans, 8 to 12 ins.	15.00	140.00
Ilex crenata Biloixi, 6 to 8 ins.	17.00	150.00
Ilex crenata Biloixi, 8 to 12 ins.	20.00	180.00
Ilex crenata bullata, 6 to 8 ins.	17.00	150.00
Ilex crenata bullata, 8 to 12 ins.	20.00	180.00
Ilex crenata divaricata,		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
Ilex crenata repandens,		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
Ilex crenata rotundifolia,		
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
Ilex glabra, 8 to 12 ins.	15.00	140.00
Ilex opaca East Palatka,		
8 to 12 ins.	15.00	140.00
Lonicera yunnanensis,		
8 to 12 ins.	12.00	110.00

250 plants or more of one variety and size take the 1000 rate.

BLACKWELL NURSERIES
Semmes, Ala.

LINING-OUT STOCK

Dwarf Euonymus	Gardenia fortunei
Gardenia radicans	Ilex rotundifolia
Viburnum edorati	Ligustrum lucidum

PRICES OF ABOVE LINING-OUT STOCK		
3 to 5 ins., rooted cuttings.	\$0.75	\$5.00
4 to 6 ins., rooted cuttings.	1.00	6.00
6 to 8 ins., rooted cuttings.	1.50	10.00
8 to 12 ins., rooted cuttings	2.00	12.50
Berkmans' Arborv.	Hetz Juniper	
Buxus japonica	Ilex bullata	

PRICES OF ABOVE LINING-OUT STOCK		
3 to 5 ins., rooted cuttings.	\$1.00	\$6.00
4 to 6 ins., rooted cuttings.	1.50	8.00
6 to 8 ins., rooted cuttings.	2.00	12.50
8 to 12 ins., rooted cuttings	2.50	15.00
Pittosporum, green	Buxus harlandi	
Ilex burfordi	Podocarpus	
Pätzer Juniper		

PRICES OF ABOVE LINING-OUT STOCK		
3 to 5 ins., rooted cuttings.	\$1.00	\$6.00
4 to 6 ins., rooted cuttings.	1.50	8.00
6 to 8 ins., rooted cuttings.	2.00	12.50
8 to 12 ins., rooted cuttings	2.50	15.00

FLOWERWOOD NURSERY, INC.
H. L. Lyons, Manager

P. O. Box 185 Cairo, Ga.

2-YR. HEAVY LINERS, OPEN-BEDDED

	Each
20,000 Taxus cuspidata	20c
2,000 Taxus densiformis	20c
1,000 Taxus mooni	20c
1,000 Taxus hicksii	20c

1-YR. LINERS, OPEN-BEDDED

	Each
15,000 Taxus densiformis	15c
14,000 Taxus cuspidata	15c
3,000 Taxus hatfieldi	15c
3,000 Taxus mooni	15c
1,400 Arborvitae, dark American	15c

ROOTED CUTTINGS, OUT OF SAND

	Each
10,000 Taxus densiformis	9c
15,000 Taxus cuspidata	9c
10,000 Taxus capitata, from tip cuttings	9c

Minimum order 500.

LAURIENTE NURSERIES, INC.

464 Main St. Agawam, Mass.

SHRUBS

Just a few of the better shrubs included in our latest list are offered below.

	Per 100
Daphne cneorum, 1-yr., 6 to 12 ins.	\$40.00
Daphne cneorum, 2-in. pots.	25.00
Erica carnea, 2-in. pots.	20.00
Euonymus radicans aureo marginatus,	
2-in. pots	15.00
Euonymus radicans vegetus, 2-yr.	27.50
Forsythia Lynwood Gold, 3 to 4 ft.	55.00
Forsythia Beatrix Farrand, 3 to 4 ft.	45.00
Hydrangea Nikko Blue, 8 to 10 canes.	65.00
Privet, dwarf Wintergreen, 2-in. pots.	25.00
Privet, Golden Vicary, 12 to 15 ins.	30.00

THE JOSEPH F. MARTIN CO., INC.

Box 189 Painesville, O.

HEAVY TAXUS LINERS

From field and open beds.

	Per 100
Taxus cuspidata, 3-yr., 10 to 12 ins.	\$45.00
Taxus cuspidata, 4-yr., 12 to 15 ins.	55.00
Taxus capitata, 3-yr., 10 to 12 ins.	45.00
Taxus andersoni, 4-yr., 10 to 12 ins.	50.00
Taxus browni, 3-yr., 10 to 12 ins.	50.00
Taxus browni, 4-yr., 12 to 15 ins.	60.00
Taxus hicksii, 3-yr., 10 to 12 ins.	45.00
Taxus hicksii, 4-yr., 12 to 15 ins.	55.00
Taxus hatfieldi, 3-yr., 10 to 12 ins.	45.00
Taxus hunnewelliana, 3-yr., 10 to 12 ins.	45.00
Euonymus vegetus, 3-yr., 12 to 15 ins.	45.00

STROHL'S NURSERY

5204 St. Joe Rd. Ft. Wayne, Ind.

EVERGREENS

See our complete listing

in this issue

in our double page ad.

T. G. OWEN & SON, INC.

Columbus, Miss.

LINERS FROM FIELD BEDS

	Per 100
Taxus browni, 1-yr., T, 6 to 8 ins.	\$17.50
Taxus browni, 2-yr., T, 8 to 10 ins.	30.00
Taxus hatfieldi, 1-yr., T, 6 to 8 ins.	17.50
Taxus hatfieldi, 2-yr., T, 8 to 10 ins.	30.00
Taxus hatfieldi, 3-yr., TT, 10 to 12 ins.	45.00
Taxus hatfieldi, 3-yr., TT, 12 to 15 ins.	55.00
Taxus hicksii, 1-yr., T, 6 to 8 ins.	17.50
Taxus kelseyi, 1-yr., T, 6 to 8 ins.	17.50
Ilex opaca. Vars.: Farage, Merry	
Christmas, male; 3 to 4-in. pots,	
12 to 15-in. plants	75.00
Zeikova serrata, 1-yr. adlgs., 12 to 15.	16.00

BLAKE'S NURSERY

P. O. Box 93 Saddle River, N. J.

THINK BEFORE YOU PLANT

Labor, land, harvesting and selling are your greatest costs. Don't skimp on the liner. Buy only top quality in the better varieties, such as those listed in our descriptive catalog of "FINER LINERS." Free copy on request.

JOHN VERMEULEN & SON, INC.

Neshanic Station, N. J.

"FINER LINERS" since 1921.

LINING-OUT STOCK

Junipers, Arborvitae, Cypress, Yews, Rhododendrons, Camellias, Azaleas, broad-leaved Evergreens, fruit, shade and flowering trees.

Write for special price list.

BENEDICT NURSERY CO.

735 N. E. 87th Ave. Portland 15, Ore.

LINERS OF THE BETTER KINDS

Novelties and rare items.

Write for price list.

GULF STREAM NURSERY, INC.

Wachapreague, Va.

MAPLES

NORWAY MAPLE

Straight trunks. Fine heads. Very fibrous roots.

	10-49	50-250
6 to 8 ft.	\$2.50	\$2.50
8 to 10 ft., 1 to 1 1/4-in.	4.05	3.25
9 to 11 ft., 1 1/4 to 1 1/2-in.	5.30	4.25
10 to 12 ft., 1 1/2 to 1 3/4-in.	6.00	5.50
11 to 13 ft., 1 3/4 to 2-in.	8.00	6.50

PRINCETON NURSERIES

Princeton, N. J.

COLLECTED ACER

RUBRUM AND SACCHARUM

from whips to 4-in. caliper.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

NANDINAS

Nandina seedlings, 2-yr. plants, \$20.00 per 1000. Skyline Gardens, 2112 Farley Rd., Birmingham 9, Ala.

PACHYSANDRAS

LAST CALL! LAST CALL!

STRONG ROOTED CUTTINGS, ready now.

\$38.00 per 1000;

\$35.00 per 1000 for 5000 or more.

Check with order.

Prompt shipping. Satisfaction guaranteed.

TOWN & COUNTRY NURSERY

4202 Fordleigh Rd. Baltimore 15, Md.

800,000 PACHYSANDRAS

Hand-selected, field-grown cuttings,

pick up at nursery,

\$30.00 per 1000.

If to be shipped, add \$2.50 per 1000 for packing.

MARTIN VIETTE NURSERY

Route 25A East Norwich, L. I., N. Y.

Phone Wells 1-2372

PACHYSANDRA TERMINALIS

Per 100 Per 1000

1-yr., field-grown \$5.00 \$45.00

Lots of 3000 42.50

2-yr., field-grown 8.00 75.00

2 1/4-in., pot-grown 11.50 105.00

Free packing. Phone MOhawk 4-3923.

HANSEN BROS. NURSERIES, INC.

1268 Montgomery Ave. Narberth, Pa.

PACHYSANDRAS

1-yr.-old, frame-grown, well-rooted cuttings,

\$5.50 per 100, \$43.00 per 1000; \$40.00

per 1000 for 5000 or more. Order now for

early spring delivery.

BRUNDAGE & GUTHRIE

123 Franklin St. Tarrytown, N. Y.

Pachysandras, strong plants, grown in soil

frames with light shade. First-class stock.

\$6.50 per 100, \$53.0

PEONIES

PEONIES

Adolphe Rousseau, Baroness Schroeder, Duchesse de Nemours, Festiva Maxima, Sarah Bernhardt, Lady Alex. Duff, Marie Lemolne, Mons. Jules Elie, Reine Hortense. 3-yr.-old, whole clumps, not divided. 6 eyes and up, \$75.00 per 100, \$700.00 per 1000; divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000.

VERKADE'S NURSERIES, WAYNE, N. J.

GRAFTED TREE PEONIES

Red, white, pink, purple, 1-yr., \$10.00 per 10; 2-yr., \$15.00 per 10.
A yellow TREE PEONY for \$1.50 with every 10 others. Free Peony list.
ATHA GARDENS, WEST LIBERTY 6, O.

PEONIES, DOUBLES, PINK AND WHITE
3 to 10 eyes, row-run, \$25.00 per 100.
SHAW BALTIC NURSERY
9650 Carnegie Ave. Cleveland, O.

PHLOX

PHLOX SUBULATA

(Creeping Phlox)

An excellent choice of varieties.
Transportation charges prepaid by us.
Alba, pure white.
Astro, deep orchid-rose.
Atropurpurea, wine-red.
Blue Hills, attractive medium blue.
Butterfly, lilac bluish, showy purple eye.
Crimson Beauty, brilliant cyclamen-red.
Red Wing, large glowing red.
Sensation, pretty bright pink with red eye.
Transplants, \$5.50 per 100, \$50.00 per 1000.
Liners, \$5.00 per 100, \$45.00 per 1000.
250 or more of same variety at 1000 rate.
Prices are delivered, we pay transportation.
Careful packing and each variety labeled.
Terms: Cash with order.
TANGLEWOOD FARM
P. O. Box 336-N Phone 1060 Clinton, S. C.

HARDY PHLOX

Ask for our new listing on field-grown garden Phlox and Phlox subulata (Creeping Phlox). If interested in 5000 or more plants, ask for our special quantity discount.

WALTERS GARDENS

R. R. 2 Zeeland, Mich.
We have quantities of bright red Dixie Brilliant Thrift (Phlox subulata), also pink, blue, pure white; now in bud and bloom; nice, large plants, \$8.00 per 100, \$60.00 per 1000.
Tidwell Nurseries, Greenville, Ga.

Phlox Subulata (Creeping Phlox), best pink; strong, pot-bound plants, from 2 1/2-in. pots, bushy top, 100, \$8.50. Rooted cuttings from field clumps now in bloom, 100, \$4.00. Cash. Pittman Nurseries, Magnolia, Ark.

PIERIS

PIERIS JAPONICA (ANDROMEDA)

We collect our own seed from the best and healthiest plants, ensuring strong, uniform plants.

Each Each
per 100 per 1000
3-yr. TT, heavy, 9 to 10 ins. \$0.50 \$0.45
Heavy, 18 to 24 ins., B&B..... 2.50
Heavy, 2 to 2 1/2 ft., B&B..... 3.50

C. HOOGENDOORN

WHOLESALE NURSERYMAN
413 Turner Rd. Newport, R. I.

ANDROMEDA JAPONICA

For early spring delivery.
Nice plants, 6 to 9 ins., \$17.00 per 100.
Sample on request.
No packing charge.
F.O.B. Lincoln Park, N. J.

LINCOLN PARK NURSERIES

Lincoln Park, N. J.

ANDROMEDA (PIERIS JAPONICA)

One of the most beautiful broad-leaved Evergreens. Per 100 Per 1000
2 to 3-in., 1-yr., T..... \$ 8.00 \$ 75.00
3 to 5-in., 1-yr., T..... 14.00 120.00
6 to 8-in., 2-yr., TT..... 20.00 190.00

PLANE VIEW NURSERY

1355 W. Main Rd. Newport, R. I.

PIERIS JAPONICA

Each, 1000
1-yr. seedlings \$0.08
1-yr., bedded, 3 to 6 ins.10
2-yr., open field rows, 6 to 8 ins.30
3-yr., open field rows, 9 to 12 ins.45

ECKHART NURSERIES

16 Toppa Blvd. Newport, R. I.

PRIVET

GENUINE AMUR RIVER NORTH PRIVET
1-yr., 9 to 18 ins., 2 canes or more, cut back twice, \$4.00 per 100, \$35.00 per 1000. 300 or more at 1000 rate.
This is the best Privet we have ever grown.

Free packing on all orders of 10,000 or more, others at cost.
PAUL'S NURSERY Shelby, O.

R. F. D. 3

Thousands of Amur River North Privet.

Per 100 Per 1000
18 to 24 ins. \$3.00 \$25.00
2 to 3 ft. 4.00 30.00
3 to 4 ft. 5.00 40.00
Immediate shipment. Satisfaction guaranteed. Robinson Nursery Co., Greenville, Ga.

PYRACANTHAS

PYRACANTHAS

Per 1000
EARLY RED
CRENATO-SERRATA GRABERI
8 to 12 ins., potted \$175.00
12 to 18 ins., bed-grown 150.00
COCCINEA LALANDI
8 to 12 ins., potted 175.00
FREE PACKING.
COTTAGE HILL NURSERY, LTD.
4000 Japonica Lane Mobile, Ala.

RHODODENDRONS

RHODODENDRONS

Hardy Rhododendron liners, rooted cuttings, heavy transplants.
Catawbiense album, white
Catawbiense Boursault, lilac
Catawbiense grandiflora, lilac
Dr. H. C. Dresselhuys, red
English roseum, rose
Everestianum, rosy lilac
Ignatius Sargent, light rose-crimson
Parson's grandiflorum, dark purplish rose
Purpureum grandiflorum, purple
Roseum elegans, rose-lilac
\$75.00 per 100, \$325.00 per 500, \$600.00 per 1000.

J. BLAAUW & CO., LINCROFT, N. J.

OWN-ROOT, HYBRID RHODODENDRONS

(In gal. plantainers.)
America, Dr. Dresselhuys, Boursault.
Each Each
4 to 6 ins. \$0.80 9 to 12 ins. \$1.50
6 to 9 ins. 1.15 12 to 15 ins. 1.85
Budded catawbiense grand., B&B,
for garden centers.
Nursery inspection and pickup only.
DR. C. R. SHUSTER
817 Wood Mercury 5-2744 Saltsburg, Pa.

RHODODENDRON

of hardy ponticum, catawbiense parentage.
Good caliper and foliage. For understock, growing on or over the counter sales. Twice transplanted, lightweight, firm ball.
6 to 8 ins., \$15.00 per crate of 50.
4 to 6 ins., \$12.50 per crate of 50.
Order by crate only. Expert, frostproof, lightweight crating free. Cash with order.
State shipping method.
RICHARD P. RESSEL, MULINO, ORE.

RHODODENDRONS

Named crosses, hand-pollinated.
Each, 1000
1-yr. seedlings \$0.25
1-yr., bedded, 4 to 8 ins.45
2-yr., open field rows, 9 to 12 ins.60
3-yr., open field rows, 12 to 18 ins.,
budded \$2.00 to 3.00

ECKHART NURSERIES

16 Toppa Blvd. Newport, R. I.

RHODODENDRON MAXIMUM

Nursery-grown and collected, 2 to 7 ft. high. Well-shaped and symmetrical plants.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

RHODODENDRONS

Hardy, hybrid seedlings, liners.
Write for prices and sizes.
THE LEVICK NURSERY CO.
R. F. D. 3 Bridgeton, N. J.

For \$4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the May 1 issue to reach us April 15.

Forms for the May 15 issue will close April 29.

AMERICAN NURSERYMAN
343 S. Dearborn St. CHICAGO 4, ILL.

RHODODENDRONS

Azaleas, Ilex.
The best of the old and the cream of the new, in
QUALITY, QUANTITY, VARIETY.

WELLS NURSERY

Box 141 Red Bank, N. J.

HYBRID RHODODENDRONS

Excellent quality.
for landscaping and garden centers.
PARMENTIER'S ROSES
Bayport, L. I., N. Y.
Phone Bayport 8-0811.

100,000 hybrid Rhododendrons, any variety, size, priced reasonably. Kordus Nursery, Deer Park Ave., R. D. 4, Huntington, N. Y.

ROSEBUSHES

EVERBLOOMING MINIATURE ROSES

Beautiful little darlings, like Hybrid Tea. Seldom over 10 ins. tall. We ship branched own-root, 2 1/2-in. pot size plants.
*Recommended for forcing Per 10 Per 100
Red, Spring Hill's choice \$4.00 \$35.00
Cupido, nearly black crimson . 4.50 40.00
*Dian (pat. 1808), soft red 6.50 60.00
Midget (pat. 446), tiny, rose-red 6.00
*Oakington Ruby, best red 4.50 40.00
Red Imp (pat. 1032), vivid red. 6.00 55.00
White, Spring Hill's choice 4.00 35.00
*Cinderella (pat. 1051), white ... 5.50 50.00
Frosty (pat. 1412), big white ... 6.50
Pixie (pat. 408), double white. 5.00 45.00
Polka Dot, finest big white ... 6.50 60.00
*White Fairy, free-flowering dbl. 5.00 45.00
Jackie, double, cream yellow ... 4.50 40.00
Pink, Spring Hill's choice 4.00 35.00
Lilac Time, lavender-pink 5.00 45.00
Mon Petit, deep rose 4.50 40.00
*Pink Fairy, cameo-pink 5.00 45.00
*Pompon de Paris, double pink. 4.50 40.00
Rouletti, Swiss alpine pink ... 5.00 45.00
*Spring Song, large, vivid pink. 6.00 55.00
Carolyn, new superb orange ... 7.00
*Presumida, orange, bicolor ... 4.50 40.00
F.O.B. Tipp City, O.

SPRING HILL NURSERIES CO.
Dept. AN-F-59 Tipp City, O.

MINIATURE ROSES

Four outstanding varieties.
Excellent pot plants and perfectly hardy outdoors. All in 2 and 2 1/2-in. pots, ready to shift.

Per 10 Per 100
Jackie (yellow) \$4.00 \$35.00
Pearl of Canada (red) 3.50 30.00
Pompon de Paris (pink) 3.50 30.00
White Fairy (white) 4.00 35.00
Limited quantities in 4-in. pots, \$5.00 per 10, \$45.00 per 100.

Ready for immediate delivery, F.O.B. Galesburg. No charge for packing. Cash with order unless Dun & Bradstreet rated.

BURGESS SEED & PLANT CO.
Wholesale Dept. Galesburg, Mich.

ROSEBUSHES

Big, thrifty plants, guaranteed to please your most critical customers.

Priced to meet competition.

Shipped when you need them.

Standard and patent.

Bare-root and prepackaged.

A wide assortment to choose from.

Write, phone or wire for price list.

or better still come see for yourself.

MARTIN'S ROSE NURSERY

P. O. Box 155 Arp, Tex.

Phone UL 9-2191

THE SEASON'S BEST DEAL

See for yourself

by

sending for our 1959-60 trade list.

WE STILL OFFER YOU A CHOICE OF

BARE-ROOT AND PREPACKAGED,

PATENT AND STANDARD ROSES.

NEW LONDON ROSES

"The Rose Nursery"

P. O. Box 376 Overton, Tex.

TREE ROSES

We have a good supply of top-quality, Western-grown tree roses, including the popular varieties, Garden Party, Kordes Perfecta, Fire King, Peace, Pink Peace and Sterling Silver.

Write for complete list.

GERARD K. KLYN, INC.

Mentor, O.

TREE ROSES

Crimson Glory, DuPont, Floradora, Caledonia, Editor McFarland.
No. 1, \$3.25 each, in lots of 10 to 100; 100 or more, \$3.00 each.

WAYNESBORO NURSERIES

Waynesboro, Va.

Cherokee Roses (Georgia state flower), rank climber, evergreen in South; very thorny; makes a good living fence, 35c each, in bundles of 10.
Mountville Nurseries, Mountville, Ga.

ROSES

2-yr.-old, eastern, field-grown, extra heavy plants. Price list upon request.
D & D ROSE GARDENS
42 Monmouth Rd. Eatontown, N. J.

ROSEBUSHES—Continued

POTTED ROSES
Standard varieties, 35c each. Patented varieties, 100 lots, \$1.00 to \$1.25. Our own field-grown roses growing in 7-in. pots. Each plant has a color tag.
DANEGER'S HI-WAY NURSERY, INC.
P. O. Box 2336 Milford, Del.

ROSE STOCK

MULTIFLORA ROSE
Top quality plants for living fences and conservation plantings.
Root-crown caliper Approximate height Per 1000
2 to 3 mm. 8 to 15 ins. \$12.50
3 to 5 mm. 12 to 18 ins. 17.50
3 to 8 mm. 12 to 24 ins. 22.50
5 to 12 mm. 18 to 30 ins. 38.50

UNDERSTOCK. Straight shanked seedlings grown especially for understock. Nematode free. Expertly graded to suit the most particular.
4 to 6 mm. Sold out
2 to 4 mm. \$17.50 per 1000
The above prices are F.O.B. Griggsville, Ill., nursery. All tops cut back to 10 ins. at shipping unless otherwise requested. Our storage facilities are the best. ORDER NOW for spring delivery. 10 per cent discount in lots of 10,000 or over; special quotations on larger quantities. For less than 1000 add 30 per cent. Packing at cost.

FARM LANDSCAPE CO.

Route 3 Urbana, Ill.

MULTIFLORA ROSE
(*Rosa multiflora japonica*)
Hardy, northern-grown stock of highest quality. Upright thorny type for living fences, conservation and budding understock.

Our sandy soil produces the finest root system. Nematode-free.

Root-stem caliper Approximate height Per 1000
2 to 3 mm. 10 to 15 ins. \$12.50
3 to 8 mm. (sold out) 12 to 24 ins. 22.50
4 to 6 mm. for budding (sold out) 15 to 24 ins. 27.50

All stock will be shipped with tops cut back to about 10 ins. unless stated otherwise. F.O.B. Glen Head. Packing at cost. For less than 1000, add 30 per cent. Orders of 10,000 or more earn 10 per cent discount. We also have some excellent 2-yr.-old transplanted stock, about 3 to 4 ft. in height, extra strong, at 30c each, \$25.00 per 100.

BROOKVILLE NURSERIES
Box 53, Northern Blvd. Glen Head, N. Y.

THORNY ROSA MULTIFLORA
Straight shanked seedlings graded for understock.

4 to 6 mm. \$27.50 per 1000
3 to 4 mm. 17.50 per 1000
2 to 3 mm. 12.50 per 1000
Small conservation 12.50 per 1000

No packing charge. F.O.B. Milford, Del.
Tops cut back to about 16 ins. Special quotations on large amounts.

DANEGER'S HI-WAY NURSERY, INC.
P. O. Box 236 B Milford, Del.

SEEDS

CHINESE ELM SEED, 1960 CROP
High quality, dependable source.
We have filled every order we have booked in 14 consecutive years.

Priced per lb., including packing.
1 to 5 lbs. \$1.40
6 to 10 lbs. 1.25
Over 10 lbs. 1.10

MCCANCE NURSERIES
Route 3 North Platte, Neb.

COLORADO EVERGREEN SEEDS
1959 crop.
Blue Spruce (glauca), \$9.25 per lb. forest-run, \$2.25 per lb. Concolor Fir, \$3.25 per lb.
ZENTZ SEED CO., Silver Cliff, Colo.

SHRUBS AND TREES

OUR NURSERY STOCK SURPLUS SALE
For spring, get your orders filled at these reduced prices.

SPIRAEEA BILLIARDI Per 1000
18 to 24, 2 canes. \$10.00
PERSIAN LILAC
18 to 24, 2 canes. 15.00
FORSYTHIAS
18 to 24, 2 canes. 5.00
2 to 3, 2 canes. 6.00
LOMBARDY POPLAR
3 to 4, light branched. 8.00
4 to 5, light branched. 15.00

VINES
VINCA MINOR (common Periwinkle)
Myrtle vine
10 to 15 leads. 3.00
15 to 20 leads. 4.00

VINCA MAJOR
2-yr., 3 canes up. 15.00
All plants packed well to reach you in good condition. Prices are quoted F.O.B. McMinnville, Tenn. Send all orders to

OSBAN SCOTT NURSERY
P. O. Box 123 A McMinnville, Tenn.

ROOTED CUTTINGS, 1-YR. BEDDED

Per 100 Per 1000

Azalea hinodogiri \$12.00 \$100.00
Azalea Hino-Crimson 12.00 100.00
Buxus sempervirens, 4 to 6 ins. 10.00 90.00

Chamaecyparis lutescens,
4 to 6 ins. 10.00 90.00

Ilex bullata, 4 to 6 ins. 10.00 90.00

Ilex crenata, 4 to 6 ins. 12.00 90.00

Juniper, Andorra, 4 to 8 ins. 12.00 90.00

Juniperus hibernica, 4 to 6 ins. 12.00 90.00

Juniperus hetsi, 4 to 6 ins. 12.00 100.00

Juniperus stricta, 4 to 6 ins. 12.00 100.00

Juniperus communis aurea,
4 to 6 ins. 12.00 100.00

Pachysandra 4.00 35.00

Pyracantha lalandi, 4 to 8 ins. 10.00 90.00

Pyracantha lalandi (potted),
4 to 8 ins. 15.00 100.00

Pieris japonica, 4 to 8 ins. 12.00 100.00

Retinispora plumosa aurea,
6 to 8 ins. 10.00 90.00

Retinispora plumosa,
6 to 8 ins. 10.00 90.00

Taxus brevifolia, 4 to 6 ins. 10.00 100.00

Taxus browni, 4 to 6 ins. 12.00 100.00

Taxus brevifolia, 4 to 6 ins. 12.00 100.00

Taxus capitata, 4 to 6 ins. 15.00 125.00

Taxus cuspidata, 4 to 6 ins. 12.00 100.00

Taxus cuspidata F&F compacta,
4 to 6 ins. 15.00 125.00

Taxus hatfieldi, 4 to 6 ins. 12.00 100.00

Taxus henryi, 4 to 6 ins. 15.00 125.00

Taxus hicksii, 4 to 6 ins. 12.00 100.00

Taxus intermedia, 4 to 6 ins. 12.00 100.00

Taxus Moon's columnaris,
4 to 6 ins. 12.00 100.00

Taxus repandens, 4 to 6 ins. 12.00 100.00

Thuja globosa, 6 to 8 ins. 12.00 100.00

Thuja pyramidalis, 4 to 6 ins. 10.00 90.00

Thuja nigra, 5 to 8 ins. 10.00 90.00

ROOTED CUTTINGS, 2-YR. BEDDED
Juniper, Hetsi, 8 to 12 ins. \$20.00 \$200.00

Retinispora plisifera aurea,
8 to 12 ins. 20.00 200.00

Retinispora plumosa aurea,
8 to 12 ins. 20.00 200.00

Retinispora plumosa,
8 to 12 ins. 20.00 200.00

Pieris japonica, 6 to 10 ins. 20.00 200.00

Taxus cuspidata, 4 to 8 ins. 25.00 200.00

Taxus cuspidata F&F compacta,
6 to 8 ins. 20.00 200.00

Taxus browni, 6 to 8 ins. 25.00 200.00

Taxus hicksii, 6 to 8 ins. 25.00 200.00

Taxus brevifolia, 6 to 8 ins. 25.00 200.00

Thuja nigra, 8 to 12 ins. 20.00 200.00

Thuja globosa, 8 to 10 ins. 20.00 200.00

1-YR. SEEDLINGS
Taxus capitata \$5.00 \$40.00

Taxus capitata (grown from
Japanese imported seed),
4 to 6 ins. \$7.00 \$60.00

(Special price on large quantity.)

2-YR. SEEDLINGS, TRANSPLANTS
Azalea mollis \$12.00 \$100.00

Azalea mucronulata, 4 to 8 ins. 15.00 125.00

3-YR. SEEDLINGS
Balsam Fir, 4 to 6 ins. \$5.00 \$40.00

White Spruce (Picea), 4 to 8 ins. 5.00 40.00

Pinus mugo (Tyrolean), 3 to 5. 6.00 50.00

Pinus strobus, 6 to 10 ins. 6.00 50.00

Tsuga canadensis, 4 to 6 ins. 7.50 70.00

Tsuga diversifolia, 4 to 6 ins. 7.00 60.00

Concolor Fir, 4 to 6 ins. 8.00 70.00

Picea pungens glauca, 4 to 6 ins. 4.00 35.00

Picea excelsa, 4 to 10 ins. 4.00 30.00

3-YR. SEEDLINGS, TRANSPLANTED
Taxus capitata, 5 to 8 ins. \$12.00 \$100.00

Tsuga canadensis, 4 to 7 ins. 8.00 70.00

Pinus strobus, 6 to 8 ins. 8.00 70.00

Picea engelmanni, 3 to 6 ins. 7.00 60.00

Picea rubens, 3 to 6 ins. 7.00 60.00

Picea excelsa, 4 to 6 ins. 6.00 50.00

Picea pungens glauca, 4 to 6 ins. 8.00 70.00

Concolor Fir, 4 to 6 ins. 10.00 80.00

4-YR. SEEDLINGS, TRANSPLANTED
Leucothoe catesbaei,
10 to 14 ins. \$35.00 70.00

Picea engelmanni, 6 to 8 ins. 8.00 70.00

Picea excelsa, 6 to 12 ins. 8.00 70.00

Picea pungens glauca,
6 to 10 ins. 12.00 100.00

Thuja occidentalis, 8 to 12 ins. 12.00 100.00

Tsuga canadensis, 6 to 8 ins. 10.00 100.00

Tsuga canadensis, 8 to 10 ins. 15.00 140.00

POT-GROWN GRAFTS
Acer palmatum atropur-
pureum \$ 65.00 100.00

Fagus sylvatica riversi 60.00 100.00

Picea moerhousii 100.00 100.00

Picea pungens glauca hoopsii 125.00 100.00

Picea kosteriana 100.00 100.00

Pinus cembra 60.00 100.00

Pinus strobus fastigiata 60.00 100.00

Pinus strobus nana 60.00 100.00

VAN DINE NURSERY
287 Berdan Ave. Wayne, N. J.

DWARF MAHONIA
Jack Mayhan is authority on mountain-

grown Mahonia. This is a new variety selection, highly ornamental. Very compact, dwarf.

Ready now, 100,000 plants. All plants U. S. D. A. inspected. Cash in on my many years' experience.

2-yr., T. \$20.00 per 100, \$150.00 per 1000.

Few 12 to 15 ins.

5 to 6-yr. finished plants, \$3.00 each.

Cash with order. Full return 5-day privilege.

MAYHAN NURSERY, VERADALE, WASH.

EVERGREENS

SPECIAL SURPLUS LIST

Arborvitae Each 100 1000
American, 3-yr., bed \$0.22 \$0.20
Globe, 3-yr. 22 20

8 to 12 ins., 5-yr. 55 50

Pyramidal, 3 to 4 ft., B&B 3.60 1000

Juniper, Andorra, 3-yr. 22 20

fastigiata, 18 to 24 ins., 5-yr. 55 50

hetsi, 2-yr., bed 18 16

15 to 18 ins., 5-yr. 10 15

Pfitzer, 2-yr., bed 18 16

3-yr., 8 to 12 ins. 23 20

15 to 18 ins., 5-yr. 55 50

2 to 3 ft., B&B 3.50 1000

Savin, 2-yr., bed 18 16

Taxus cuspidata,
10 to 12 ins., 5-yr. 90 80

capitata, 12 to 15 ins., 6-yr. 1.25 1000

hicksii, 10 to 15 ins., 6-yr. 1.25 1000

Euonymus erectus, 2-yr., bed 15 13

3-yr., field 32 30

FLOWERING SHRUBS

Flowering Almond, 18 to 24 ins. 40 35

Forsythia spectabilis, 4 to 5 ft. 45 40

Philadelphus virginialis, 15 to 18 in. 20 18

SHADE TREES

Chinese Elm, 1 1/2 to 1 1/2 in. 1.00 3000

1 1/2 to 2 in. 1.50 3500

2 to 2 1/2 in. 2.00 5000

2 1/2 to 3 in. 2.50 8000

Sycamore, 5 to 6 ft. 50 45

Each Each, 100 1000

European White Birch,
1 1/2 to 2 in., B&B \$11.00 \$10.00

2 to 3 in., B&B 17.50 16.00

3 to 3 1/2 in., B&B 20.00 1000

Silver Maple, 6 to 12 in.,
seedlings ... \$ 2.00 per 100, \$10.00 per 1000

12 to 24 ins. 4.00 per 100, 20.00 per 1000

2 to 3 ft. 10.00 per 100, 50.00 per 1000

3 to 4 ft. 15.00 per 100, 75.00 per 1000

6 to 8 ft., T. \$0.75 \$0.65

8 to 12 ft., T. 1.50 1.35

Free boxing and packing. One-fourth pay-

ment with order, balance before shipment.

2 per cent discount, cash with order. Prices

are subject to change without notice.

Write for price list.

RICHARDSON NURSERIES, INC.
53947 Fir Rd., R. 1 Granger, Ind.

SPRING 1960 WHOLESALE LIST

Per 100 Per 1000

3-yr. bed. Liners (from cuttings)
Ilex rotundifolia, 6 to 10 ins.,
..... \$27.00 \$200.00

Taxus hicksii, 8 to 12 in. 30.00 250.00

Taxus cusp., 6 to 8 ins. (1 TT) 30.00 250.00

Hetz sil. Juniper, 6 to 8 (2 TT) 27.00 225.00

Hetz sil. Jun., 10 to 12 (3 TT) 30.00 250.00

Amer. Arbor. (dark green),
8 to 10 ins. (1 TT) 27.00 225.00

B&B stock (from cuttings) Each per 25

Pyr. Arborv., 24 to 30 ins., B&B, \$2.25 2.00

Hetz sil. Juniper, 18 to 24, B&B 2.25 2.00

Andorra Jun., 12 to 16 ins., B&B 2.25 2.00

Gold. Juniper, 12 to 16 ins., B&B 2.25 2.00

Taxus browni, 14 to 18 ins., B&B 2.50 2.25

Pfitzer Jun., 18 to 24 ins., B&B 2.25 2.00

Liners, nursery row (ideal for potting).
From cuttings, well-sheared

Per 10 Per 100

Forsythia (Spring Glory),
2 to 3 ft. \$4.50 \$4.00

Globe Arborvitae, 8 to 10 ins. 6.00 50.00

Ilex rotundifolia, 8 to 10 ins. 5.00 45.00

</

IDEAL SIZE PLANT MATERIAL FOR

LANDSCAPERS OR GARDEN CENTERS

500 Ilex crenata, B&B, 24 to 36 ins. ...	\$3.50
500 Ilex crenata, B&B, 36 to 48 ins. ...	4.50
2000 Ilex crenata convexa (bullata), heavy, B&B, 18 to 24 ins.	3.50
1000 Taxus hispida (Yew), heavy, B&B, 18 to 24 ins.	3.00
1000 Jap. Red Maple, seedlings, B&B, 3 to 3 1/2 ft.	3.50
2000 Pieris japonica, well-budded, heavy, B&B, 18 to 24 ins.	3.50
1000 Pyracantha (1-gal. containers), 3 ft. 1.00	

Due to digging conditions in the spring we would appreciate orders early as possible for assurance of early delivery.

THE WHITMAN NURSERIES

236 Walt Whitman Rd.
Huntington Station, N. Y.
Phone HAMILTON 3-3838

SHRUBS AND TREES

50 European Birch, 3 and 4-in. cal.	
1000 Chinese Elm, 3, 4, 5 and 6-in. cal.	
3000 Silver Maple, 1 1/2, 1 3/4, 2 and 2 1/2-in. cal.	
400 Norway Maple, 2, 2 1/2 and 2 3/4-in. cal.	
350 Schiedler Maple, 1 1/2, 2 and 2 1/2-in. cal.	
400 Sugar Maple, 1 1/2-in. cal.	
500 American Sycamore, 1 1/2 and 2-in. cal.	
500 European Birch, 4 to 5 ft. and 5 to 6 ft.	
1000 Mt. Ash, 4 to 5 ft. and 5 to 6 ft.	
1000 White Ash, 4 to 5, 5 to 6 and 6 to 8 ft.	
1000 Green Ash, 4 to 5, 5 to 6 and 6 to 8 ft.	
1000 Flowering Crab, 3 to 4, 4 to 5, 5 to 6 ft.	

Other trees in smaller quantities. Flowering shrubs in variety. See our ads under Evergreens, Lilacs and Roses.

NAGLE'S NURSERY

R. 2, Box 267 Decatur, Mich.
Phone GARFIELD 3-3739

LANDSCAPE MATERIAL

Acer platanoides, 6 to 8 to 10 to 12 ft.	
Cham. plumosa, 12 to 15 to 18 to 24 ins.	
Cham. plumosa aurea, 12 to 15, 18 to 24 ins.	
Cornus florida, 3 to 4 to 6 to 8 ft.	
Cotoneaster divaricata, 2 to 3 ft.	
Craetagus cordata, 2 to 3 to 4 to 5 ft.	
Cryptomeria japonica lobbi compacta, 12 to 18 ins. to 3 to 4 ft.	
Juniperus stricta, 12 to 15 to 18 to 24 ins.	
Laburnum vossii, 5 to 6 ft.	
Koeleruteria paniculata, 2 to 3 to 3 to 4 ft.	
Pieris japonica, 12 to 15 to 18 to 24 ins.	
Sorbus aucuparia, 5 to 6 to 8 to 10 ft.	
Syringa vulgaris, 2 to 3 to 3 to 4 ft.	
Syringa vulgaris alba, 2 to 3 to 3 to 4 ft.	
Taxus, in varieties, 12 to 15 to 18 to 24 ins.	
Viburnums, in varieties, 12 to 15 to 18 to 24 ins.	

VERKADE'S NURSERIES

New London, Conn.

EVERGREENS AND SHRUBS, B&B

1000 Andorra Juniper, 18 to 24 ins.	\$1.50
2000 Andorra Juniper, 24 to 30 ins.	2.00
200 Mugho Pine, 12 to 15 ins.	2.00
200 Mugho Pine, 15 to 18 ins.	2.50
50 Mugho Pine, 18 to 24 ins.	3.00
500 Norway Spruce, 24 to 30 ins.	3.50
500 Norway Spruce, 30 to 36 ins.	3.50
500 White Pine, 2 to 3 ft.	2.50
500 Canada Hemlock, 5 to 6 ft.	5.00
5000 Ilex rotundifolia, 12 to 15 ins.	1.50
3000 Ilex rotundifolia, 15 to 18 ins.	2.00
1000 White Dogwood, most with buds, 6 ft.	3.50
500 Deutzia Pride of Rochester, 5 to 6 ft.	1.00
200 Mock Orange, 5 to 6 ft.	1.00

KANEFF'S NURSERIES

Glendale Rd. Marietta, O.

EVERGREENS, WHOLESALE

A wide selection of Evergreen seedlings and transplants, also hardwoods, shade trees, ornamentals, shrubs and flowering trees. Our selected seed with good heredity and scientific culture assures healthy trees with heavy roots for rapid growth.

Musser offers quality trees at a price made possible through large quantity production. Our cold storage permits late shipments. No charge for packing and boxing. Ask for complete catalog and wholesale planting lists.

Our ad, which appears on pages 26 and 27 of this issue, shows a partial list of seedlings and transplants.

MUSSER FORESTS

Box 16-DC Indiana, Pa.

COLLECTED WHIPS

Acer saccharum	Fraxinus americana
Acer rubrum	Betula lutea
Betula populifolia	Tilia americana

Also collected Hemlock seedlings.

4 to 18 ins.

Write for price list.

SHADY MAPLE NURSERY

R. F. D. 3 Canton, N. Y.

NURSERY STOCK

Taxus, Rhododendrons, Hollies, Azaleas, Magnolias, Euonymus, Boxwood, etc. Choice quality, well-graded stock, finished and lining-out sizes. Catalog now available.

GERARD K. KLYN, INC.

Menton, O.

In the heart of famous Lake County.

ORNAMENTAL TREES

Crab Apple, 40 varieties; 1-yr. trees and limited number 4-yr. transplants. Descriptive booklet available.

Thunder Cloud Plum, purple-leaved; 1-yr. and 4-yr., 8 ft. up.

Winter King Hawthorn, fruits ornamental all winter; 1-yr. whips.

American Holly, hardy named varieties, in sizes to 6 ft.

Taxus and large plants of Magnolia soulangiana.

SIMPSON ORCHARD CO., INC.

1504 Wheatland Rd. Vincennes, Ind.

Phone TU 2-2441

LOMBARDY POPLAR

3-yr., heavy branched	Each, 25	100
6 to 8 ft.	\$0.75	\$0.60
8 to 10 ft.	1.10	1.00
10 to 12 ft.	1.50	1.00
2-yr., 4 to 5 ft. ....	.50	.35
5 to 6 ft. ....	.60	.40
1-yr., 2 to 3 ft.	\$.75	per 100
3 to 4 ft.	10.00	per 100
4 to 5 ft.	12.00	per 100
5 to 6 ft.	15.00	per 100

Packing at cost.

PAUL'S NURSERY

R. F. D. 3 Shelby, O.

COLLECTED STOCK

AMERICAN WHITE BIRCH, clumps, 3 stems and up, B&B.	
6 to 8 ft.	\$55.00 \$500.00
8 to 10 ft.	75.00 700.00
CANADIAN HEMLOCK, Per 100 Per 1000	
6 to 9 ins.	\$4.00 \$20.00
9 to 12 ins.	6.00 45.00
12 to 18 ins.	8.00 65.00

RADFORD H. PALMER

LAMPREY RIVER NURSERY

R. F. D. 1 Durham, N. H.

WHITE BIRCH

3 to 4 ft.	\$0.40
4 to 5 ft. ....	.55
5 to 6 ft. ....	.75

Larger sizes available.

CHINESE ELM

2 1/2 to 3 ins., B&B	\$12.50
3 to 3 1/2 ins., B&B	15.00
3 1/2 to 4 ins., B&B	18.00

Larger sizes available.

OGDEN NURSERIES, AURORA, ILL.

Phone TW 7-7397

Bright red Crape Myrtle, specimen, 7 to 8 ft., average about 3 to 5 canes, about 1-in. cal.; each main cane, \$4.00, B&B; puddled, \$3.00 each. Abella grandiflora, specimen, 4 to 6 ft., about 15 main canes, \$2.50, B&B; puddled, \$2.00. Spiraea vanhouttei, specimen, 4 to 6 ft., about 30 canes per plant, \$2.50, B&B; puddled, \$2.00. Peach pits, 1959 crop, \$2.95 per bu. One-half cash with order, balance on delivery.

Riverdale Nurseries, Riverdale, Ga.

ROOTED CUTTINGS FROM SAND

All cuttings 6 to 3 ins.
Ilex crenata, Ilex convexa bullata, Taxus, Illex japonica, hicksi, thayerae, kelseyi, hatfieldi, cuspidata, \$9.00 per 100. Also 2000 hybrid Rhododendrons, 2000 Pieris japonica, grown 24 to 36 in. in soil; Pachysandras, in flats and pots.

BRAND'S NURSERY

912 Park Ave. Huntington, L. I., N. Y.

Phone HAMILTON 3-2456

SUGAR MAPLE, COLLECTED

1/2 to 1 ft.	\$ 7.00 per 100
1 1/2 to 2 ft.	10.00 per 100
2 1/2 to 3 ft.	13.00 per 100
3 1/2 to 4 ft.	18.00 per 100
4 to 5 ft.	25.00 per 100
5 to 6 ft.	35.00 per 100
6 to 8 ft.	50.00 per 100
8 to 10 ft.	75.00 per 100
10 to 12 ft.	100.00 per 100

Orders taken for spring delivery.

MAPLEWOOD NURSERY

N. H. Insp. 77 Franklin, N. H.

SURPLUS SHADE TREES

Honey Locust (Gleditsia triacanthos), thornless, 2-in. cal. \$3.00
5 to 6 ft. 1.00
Sycamore (Platanus occ.), 2-in. cal. ... 2.00
Sweet Gum (Liquidambar styraciflua), 1 to 1 1/2-in. cal. 1.50
B&B, 50c per tree extra.

LAWRENCE SANDERS NURSERY

721 Kentucky Ave. Paducah, Ky.

DESMODIUM PENDULIFLORUM

(Purple Desmodium.)

Purple flowers in profusion during summer. 2-yr., No. 1, \$8.75 per 25, \$30.00 per 100. 2-yr., med., \$7.50 per 25, \$25.00 per 100.

SARCOXIE NURSERIES

Sarcoxie, Mo.

RUSSIAN OLIVE SEEDLINGS

6 to 12 ins.	\$15.00 per 1000
12 to 18 ins.	15.00 per 1000
18 to 24 ins.	35.00 per 1000
2 to 3 ft.	50.00 per 1000

ROGERS & KOPPENHEFFER NURSERY

2029 Judson Dr. Manhattan, Kan.

WHITE PINE AND WHITE DOGWOOD

Nursery-grown, 5 to 12 ft.

Nice plants, priced to sell.

GEORGE F. BLOOMER NURSERIES

Route 69 Flemington, N. J.

Phone STATE 3-3259

LANDSCAPE ARCHITECTS!

We have made a specialty of growing large landscape material for the past 40 years. We cordially invite you to inspect our stock.

GEORGE F. BLOOMER NURSERIES

Route 69 Flemington, N. J.

Phone STATE 3-3259

KWANZAN FLOWERING CHERRY

3 to 4 ft., branched.

\$2.75 each, in lots of 10 to 50;

50 to 100, \$2.50 each.

WAYNESBORO NURSERIES

Waynesboro, Va.

RARE SHADE TREE LINERS

Increase your sales with our quality flowering, shade, shrubs, fruit tree liners.

Reasonable prices. Send want list.

GLOBE NURSERIES

Box 249 McMinnville, Tenn.

Mugho Pine, B&B, 15 to 18 ins. \$3.25

Mugho Pine, B&B, 18 to 24 ins. 4.50

Mountain Ash (European), 5 to 6 ft. ... 1.25

Mountain Ash (European), 6 to 8 ft. ... 1.75

The Pequot Nurseries, Brainerd, Minn.

FORSYTHIA SURPLUS

Golden Bells and Lynwood Gold.

3 to 5 ft., 50c; 100, \$40.00.

SHAW BALTIC NURSERY

9650 Carnegie Ave. Cleveland, O.

SHADE TREES

Popular varieties, assorted sizes.

Submit want list for special prices.

WAYNESBORO NURSERIES

Waynesboro, Va.

KOLKOWITZIAS

4 to 5 ft., 60c each; 50c each per 100.

SHAW BALTIC NURSERY

9650 Carnegie Ave. Cleveland, O.

EUONYMUS PATENS

18 to 24 ins., strong, 40c; 100, \$30.00.

SHAW BALTIC NURSERY

9650 Carnegie Ave. Cleveland, O.

STRAWBERRIES

TENNESSEE'S FINEST

CERTIFIED STRAWBERRY PLANTS

Priced per 1000, F.O.B.

Blakemore \$5.00 Dixieland \$10.00

Florida 30 6.00 Empire 10.00

Dunlap 6.00 Sparkle 10.00

Premier 8.00 Pocahontas 12.00

Robinson 8.00 Gem, everb. ... 12.00

Tenn. Beauty 8.00 Superfection 12.00

100 plants, \$2.50, postpaid.

All plants were grown on virgin soils.

SMITH BERRY GARDENS

Ooltewah, Tenn.

Phone: Chattanooga, F 4-6758.

STRAWBERRY PLANTS

Choice, well-rooted, certified and virus free.

Cleaned, packed in bundles of 25.

Blakemore, Dunlap, Robinson, Tenn. Beauty, Aroma, 1000 plants, \$7.50.

Pocahontas, Dixieland, Armore, Surecrop, 1000, \$9.00.

Streamliner, everbearing, 1000, \$12.50.

Ozark Beauty, everbearing, 1000, \$70.00.

Plants well-packed. Prompt shipment.

Live arrival guaranteed. Priced F.O.B.

HAMES STRAWBERRY NURSERY

Goodman, Mo.

TAXUS

TAXUS CAPITATA

(Upright Japanese Yew.)

Per 100 Per 1000

*15,000 2-yr., selected seedlings,

4 to 6 ins. \$0.15 \$0.12 1/2

15,000 4-yr., T. 10 to 15 ins.45 .40

*Seed sown lightly. Plants grown with plenty of room in beds.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

30,000 TAXUS CAPITATA

2-yr. seedlings from Japanese seed. 3 1/2

to 7 ins., nice, \$90.00 per 1000. Liberal

count. Free packing for cash with order.

RITTER'S NURSERY, BENTON, PA.

Turn your Surplus Stock

into cash

with a Classified Ad in

the American Nurseryman.

VEGETABLE PLANTS

VEGETABLE PLANTS

FOR GARDEN AND NURSERY SHOPS.

WRITE FOR COMPLETE WHOLESALE

LIST OF POPULAR VARIETIES.

Cabbage, 12 popular varieties ... 2000, \$5.40

RED ROUND DUTCH CABBAGE, 1000, 3.65

Onions, 4 popular varieties, ... crate, 5.65

HYBRID Onions, yel. and white, ... crate, 6.95

State inspected. Shipped by express now.

VEGETABLE PLANTS—Continued

WHOLESALE PRICE LIST, 1960		
Plant variety	Date ready	Per 1000
CABBAGE	Now	\$2.00
ONION	Now	1.50
HYBRID ONION	Now	2.50
LETTUCE	Now	4.50
BROCCOLI	Now	4.50
CAULIFLOWER	Now	4.50
TOMATO	April 15	4.50
HYBRID TOMATO	April 15	6.50
PEPPER	April 15	4.50
EGGPLANT	April 15	4.50
All above priced F.O.B. Albany.		
Minimum quantity, 1000 of each variety.		
Small lot prices available.		
Quantity price on 100,000 lots upon request.		
Prompt shipment. Write for catalog.		
Write or wire today.		
PIEDMONT PLANT CO.		
Dept. 905	Albany, Ga.	

VIBURNUMS

VIBURNUM CARLESI (Fragrant Mayflower Viburnum)		
	Per 100	Per 1000
5000 2-yr. seedlings,		
4 to 6 ins.	\$.015	\$0.12½
6 to 8 ins.	.20	.17½
8 to 12 ins.	.30	.25
*1000 3-yr. T. 12 to 18 ins.	.75	.60
*Heavy, well-branched, suitable for mail order trade.		
C. HOOGENDOORN		
Turner Rd.	Newport, R. I.	

KOREAN FRAGRANT VIBURNUM VIBURNUM CARLESI, one of the best.		
2 to 3 ft., B&B.	3.50	
3 to 4 ft., B&B.	5.00	
Larger specimens according to value.		
GEORGE F. BLOOMER NURSERY		
Route 69	Flemington, N. J.	
Phone STate 2-3259		

VIBURNUM CARLESI
(Fragrant Mayflower Viburnum.)
Well-branched, field transplants.

12 to 18 ins.	Each, 10	100
18 to 24 ins.	\$.050	\$0.80
24 to 30 ins.	1.25	1.00
30 to 36 ins.	1.75	1.60
36 to 42 ins.	2.25	2.00
F.O.B. Sarcoxie. Packing at cost.		
SARCOXIE NURSERIES		
Sarcoxie, Mo.		

VIBURNUM CARLESI COMPACTA (NEW)		
This is a compact form of Viburnum carlesii with dark green leaves and buds up very readily.		
100	1000	
2500 2-yr. grafts	\$.125	\$1.00
C. HOOGENDOORN		
Turner Rd.	Newport, R. I.	

VIBURNUM ODORATISSIMUM		
12 to 18 ins., 1-yr., bed-grown,		
\$150.00 per 1000.		
COTTAGE HILL NURSERY, LTD.		
4000 Japonica Lane	Mobile, Ala.	

VIBURNUM BURKWOODI SURPLUS		
3 to 4 ft., 60c; 100, \$50.00.		
SHAW BALTIC NURSERY		
9650 Carnegie Ave.	Cleveland, O.	

VINCAS

VINCA MINOR (PERIWINKLE)		
10 to 20 leads	\$.45	\$0.00 per 1000
20 to 30 leads	.60	.00 per 1000
J. A. WEDDINGTON & SON		
4414 Holston Drive	Knoxville, Tenn.	

WANTED

WANTED, PINEHURST GRASS
Please quote price
and any information on the product.
PATRICK HARRY NURSERY
3853 N. Richards St. Milwaukee 12, Wis.

WANTED

For spring sales yard.
Evergreens, especially Taxus,
wholesaling 50c to \$1.25.
Can use any surplus stock.

DUNDEE GARDENS

Box 59A, R. D. 1 Wilkes-Barre, Pa.

WANTED

SURPLUS NURSERY STOCK
Interested in substantial quantities of
quality stock for wholesaling to garden cen-
ters, chain stores, landscapers and builders
in New England. Write us today!

ARTHUR GAKLIS

Gold Star Wholesale Nursery Co.
181 South Ave. (R. 30) Weston 93, Mass.

WANTED

SPIRAL OR TIERED TOPIARY YEW.
4 Taxus, upright, 4 to 4½ ft. or 4½ to 5 ft.
Must be matched and very good.
Suitable for tubbing.
Quote for spring delivery.

EMPIE'S HIGHLAND NURSERIES
Box 18, Union Ave. Johnstown, N. Y.

WANTED

Trailer loads of surplus Evergreens, B&B,
for resale purposes. Can pick up within a
1500-mile radius.

PARKER WHOLESALE FLORIST, INC.
1325 Terrill Rd. Scotch Plains, N. J.
Phone FAAnwood 2-8810

WANTED, PACHYSANDRA CUTTINGS
We are in the market for rooted or un-
rooted Pachysandra terminalis cuttings, in
quantity. Please furnish prices and details.
B. DIETRICH

Bible St. Cos Cob, Conn.

Start Your Offer Now
in the American Nurseryman
And Watch Sales Climb.

SUPPLIES AND SUNDRIES

BURLAP

NEW 8 OZ. BURLAP TREE WRAP IN ROLLS. PRICED EACH.			
Width	10-20	30-50	
length	Per roll	rolls	rolls
2 ins. x 54 ft.	\$.075	\$0.60	\$0.55
3 ins. x 54 ft.	.82	.65	.57
4 ins. x 54 ft.	.98	.79	.69
5 ins. x 54 ft.	1.28	1.03	.90
6 ins. x 54 ft.	1.59	1.27	1.12
All the above prices are F.O.B. Dayton, O.			
All widths packed 10 rolls per bale and wrapped in kraft paper.			
2 per cent discount cash with order. Special discount on orders for more than 50 rolls.			
DAYTON NURSERY & GARDEN SALES			
P. O. Box 763	Dayton 1, O.		
Phone Baldwin 3-8277			

SPRING SPECIAL

NEW (8 OZ.) BURLAP SQUARES.		
18 x 18 ins.	\$.30.00	per 1000
20 x 20 ins.	32.50	per 1000
20 x 24 ins.	37.50	per 1000
20 x 30 ins.	42.50	per 1000
20 x 36 ins.	55.00	per 1000
F.O.B. Dayton, O. In less than 5000 lots.		
Prepaid in quantities of 5000 or more.		
TERMS: 2 per cent discount cash with order. Immediate shipment available.		
DAYTON NURSERY & GARDEN SALES		
P. O. Box 763	Dayton 1, O.	
Phone Baldwin 3-8277		

HOLLAND BURLAP squares, for all needs.
PLAIN, ROT-NOT-GREEN plastic preserved.
HALF MOON CO., Box 27A, Plainfield, N. J.

CANE STAKES

IMPORTED NURSERY BAMBOO STAKES			
Extra-heavy for staking trees, evergreens, Dahlias and other large plants.			
Butt cut with a minimum of taper.			
Size—diam.	Contents per bale	Price per bale	Ave. wt. per bale
4 ft., ½ to ¾-in.	500	\$19.50	90 lbs.
5 ft., ½ to ¾-in.	250	17.50	70 lbs.
6 ft., ½ to ¾-in.	200	17.50	95 lbs.
7 ft., ½ to ¾-in.	150	17.50	35 lbs.
8 ft., ½ to ¾-in.	100	16.00	90 lbs.

QUANTITY DISCOUNTS

5 bales up, less 5 per cent
10 bales up, less 10 per cent
25 bales up, less 15 per cent
Write for prices on dyed green stakes for lighter staking.

Our generous quantity discounts apply to
total orders for all types of stakes.
F.O.B. NEW JERSEY AND CHICAGO.
SOLD IN BALE LOTS ONLY.
McHUTCHISON & CO.
695-N Grand Ave. Ridgefield, N. J.

NATURAL BAMBOO STAKES

PER 100	½-in.	¾-in.	1-in.	1-1½
4 ft.	\$2.88	\$3.44	\$4.24	\$5.60
5 ft.	3.60	4.30	5.30	7.00
6 ft.	5.16	6.36	8.40	
7 ft.	6.02	7.42	9.80	
8 ft.	6.88	8.48	11.20	
10 ft.	10.60	12.60		
12 ft.	12.72	16.30		

Approximate thickness at bottom end.
F.O.B. Livonia, La. 2000 up, less 5 per cent; 5000 up, less 10 per cent.
A. C. PATTERSON, FRISCO, LA.
FORMERLY OF CENTERTOWN, KY.

BAMBOO CANE STAKES

For greenhouse and nursery purposes.
All types and sizes.
Write for prices and quantity discounts.
ALEC HENDERSON, INC.
1313 W. Randolph St. Chicago 7, Ill.

OUTDOOR BAMBOO STAKES

All sizes for immediate delivery.
Ask for our Nursery Supply List.
HALF MOON CO., Box 27A, Plainfield, N. J.

CATALOGS

Send 25c for almanac-garden guide-supply
catalog (80 pages in all), describing many
garden labels, tools, nursery and florist items.
SHEILL, D-3, SOUTHFIELD, MICH.

FERTILIZERS

PETERS SPECIAL

A complete line of soluble and long-life
fertilizer formulas specially designed for the
commercial grower and manufactured by
the Robert B. Peters Co., Inc., the trade's
leading commercial soil test laboratory.
Drop a card for complete price list and your
free brochure, "The Peters System of Soil
Fertility Control."

ROBERT B. PETERS CO., INC.
323 N. 15th St. Allentown, Pa.

More customers for you!
Over 9,500 subscribers, all active buyers,
see your ad in the American Nurseryman.

FLATS

CYPRESS FLATS, K.D.
Finest stock obtainable. Guaranteed all
clear heart. Size 20x15x3 ins. inside measure,
\$38.00 per 100.

1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bdl.
50 pcs. to bundle, 5 ft., \$4.50 per bdl.
50 pcs. to bundle, 6 ft., \$5.50 per bdl.
Ship same day.
YOHO & HOOKER, YOUNGSTOWN 2, O.

WHITE CEDAR FLATS

Order by No.	Size	Price per 100	Wt. per 100
No. 1,	14x20x2½-in.	\$27.75	320
No. 2,	14x20x3-in.	32.00	400
No. 3,	12x16x2½-in.	21.00	260
No. 4,	12x16x3-in.	24.75	275
No. 5,	14x16x2½-in.	23.75	275
No. 6,	14x16x3-in.	28.00	290
No. 7,	15x22x2½-in.	31.50	380
No. 8,	15x22x3-in.	35.75	425
No. 9,	11¼x22x3-in.	25.75	320
No. 10,	11¼x22x3½-in.	29.50	400
No. 11,	14x16x3-in.	32.75	450
No. 12,	5x11x5-in.	16.75	160
No. 13,	5x16x5-in.	19.00	215
Plant boxes,	5½x11¼x2½-in.	8.00	60
Plant boxes,	5x8½x2-in.	5.50	45

Skeleton flats to carry TEKPAKS and similar
growing containers. (Write us for price
list.)
All other sizes quoted on request.
Bottoms and sides are ¾-in. thick and
ends are ¾-in. thick. Plant boxes are made
of thinner lumber. Your name and address
printed, up to 3 lines in black ink, on one or
both end pieces at the following rates:
\$1.00 setup charge, plus ¼c per end piece.
Shipped K.D. in units of 25. F.O.B. Cook.
All shipments by truck unless otherwise
specified.

QUANTITY DISCOUNTS

Order totaling \$100.00 to \$200.00, 5 per cent;
\$200.00 to \$400.00, 6 per cent; \$400.00 to
\$600.00, 7 per cent; \$600.00 to \$800.00,
8 per cent; \$800.00 to \$1000.00, 9 per cent;
\$1000.00 and over, 10 per cent.

TERMS: 2 per cent, check with order;
1 per cent 30 days, net 60.

H. C. HILL & SONS, INC. Cook, Minn.

Phone North 6-3348

CYPRESS FLATS

TOP GRADE FLATS THAT LAST.		
No.	Size I.S.M.	Per 100 Wt.
1,	14x20x2½ ins.	\$25.00 680
2,	14x20x3 ins.	29.00 690
3,	12x16x2½ ins.	20.00 440
4,	14x16x2½ ins.	22.00 510
5,	15x22x2½ ins.	29.00 670
6,	15x22x3 ins.	33.00 780
7,	11¼x22x2½ ins.	23.00 540
Any also to order. Bottoms and sides ¾-in. thick; ends ¾-in. All planed one side.		
5 per cent discount on orders for 500 or more. Terms: Cash. Up to 3 lines printing. \$1.00 setup charge plus 1c per end piece. Shipped K.D. in units of 25. F.O.B. Williamson, N. C., truck.		

H. C. HILL & SONS
P. O. Box 74 Williamson, N. C.
Phone Swift 2-4127

Quick — Convenient — Cheap!
Selling through the Classified Ads
of the American Nurseryman.

HOTBED SASH

REDWOOD HOTBED SASH
 3x6 ft. \$5.50 each, not glazed
 3x4 ft. 3.30 each, not glazed
 2x4 ft. 2.20 each, not glazed
 GLASS FOR HOTBED SASH
 10x12, 60 lights, D.S. \$8.40 per box
 10x14, 51 lights, D.S. 8.40 per box
 YOHO & HOOKER
 Box A.N. 1165 Youngstown, O.

HUMUS

15,000 yds. high-grade humus, 86 per cent organic, 6.5 pH. Already mounded. Ideal to package in plastic bags. Big profits. All you need is a small pick-up truck. Fine opportunity for ambitious person. No money needed to start in business. Every road stand and super market is a potential buyer. I'm practically giving it away. \$1.50 per yd. Act quickly. H. J. Monetti, Alphonse Rd., Great Meadows, N. J. Phone Mercury 7-2452.

JIFFY-POTS

JIFFY-POTS
 All sizes available for prompt shipment at standard prices.
 McHUTCHISON & CO.
 695-N Grand Ave. Ridgefield, N. J.

LABELS

DAHLIA OR TREE LABELS
 Priced per carton
 Plain Painted
 3 1/2 x 5 ins., notched, not wired. \$3.00 \$3.50
 3 1/2 x 5 ins., wired (copper)..... 3.95 4.90
 POT LABELS
 4x 1/2 ins. (cartons 1000 each).... 3.95 4.60
 5x 1/2 ins. (cartons 1000 each).... 4.30 5.10
 6x 1/2 ins. (cartons 1000 each).... 4.70 5.80
 Priced per carton
 Plain Painted
 8x 1/2 ins. (cartons 500 each).... \$3.60 \$4.30
 10x 1/2 ins. (cartons 500 each).... 4.20 5.10
 GARDEN STAKES
 8x 3/4 ins. (cartons 250 each).... 3.00 3.60
 10x 3/4 ins. (cartons 250 each).... 3.30 3.90
 12x 1 1/2 ins. (cartons 100 each).... 2.00 2.40
 Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.
 Catalog on request.
 "We ship same day."
 YOHO & HOOKER, YOUNGSTOWN 2, O.

PRINTED PLASTIC AND WHITE CEDAR labels for pots, shrubs, trees and Roses. Write for complete price list and samples.
 HEINZE GARDEN SUPPLY
 100 Oak Ave., S.E. Mountain View, Calif.
 FINEST BLANK OR PRINTED wood labels.
 BENJ. CHASE CO., VI. Sta., DERY, N. H.

MACHINERY

ARIENS IMPERIAL RIDING MOWERS
 Ariens Transmatic Rotary Tillers.
 Ariens Jet and Gardener Tillers.
 Sales service and parts.
 LODING NURSERY & EQUIPMENT CO.
 Authorized factory dealer.
 4001 Coaltown Rd. Moline, Ill.

PEAT MOSS

"BRODLEAF" Best Holland PEAT MOSS.
 Gardner No. 110 and No. 85, Growers No. 120
 Growers Jumbo No. 170. Two Bales Equal 3.
 HALF MOON CO., Box 27A, Fairfield, N. J.

PLANT FOOD

CHLOROMONE
 Liquid plant hormone.
 4-oz. jar \$ 3.00
 Case of 12 23.40
 Case of 24 43.20
 Gallon tin 45.00
 HESS' NURSERIES
 P. O. Box 128 Wayne, N. J.

PLANT TIES

"QWIK-TIES," NEW, IMPROVED
 PLASTIC PLANT TIES
 Guaranteed fade-proof.
 Small, strong, almost invisible. Economical and easy to use. Packed in bundles of 250 ties for convenient use.
 Per carton Av. weight
 of 10,000 per carton
 Size \$10.00 5 lbs.
 4-in. 18.00 10 lbs.
 12-in. 27.00 14 lbs.
 McHUTCHISON & CO.
 695-N Grand Ave. Ridgefield, N. J.

PLASTIC FILM

VIKING CLOTH—Plastic Sealed Burlap.
 Let in light. Keep out Water, Wind.
 In 50-yard rolls 5 ft. wide, \$38.00.
 Polyethylene, Clear, Black, Rolls, Sts.
 HALF MOON CO., Box 27A, Fairfield, N. J.

GER-PAK POLYETHYLENE FILM
SUN-RESISTANT BLACK FOR MULCHING

.0015 MIL.
 3 ft. x 500 ft. \$ 7.45 roll
 3 ft. x 1000 ft. 14.90 roll
 4 ft. x 1000 ft. 19.90 roll
 NATURAL TRANSPARENT ONLY
 .002 MIL. ALL ROLLS 200 FT. LONG
 4 ft. 2 ins. x 200 ft. \$ 5.55 roll
 8 ft. 4 ins. x 200 ft. 11.10 roll
 12 ft. x 200 ft. 15.90 roll
 NATURAL TRANSPARENT ONLY
 .004 MIL. ALL ROLLS 100 FT. LONG
 3 ft. x 100 ft. \$ 4.00 roll
 4 ft. x 100 ft. 5.30 roll
 6 ft. x 100 ft. 7.98 roll
 8 ft. x 100 ft. 10.65 roll
 14 ft. x 100 ft. 18.60 roll
 MINIMUM ORDER .004 mil. 4 rolls up to 8 ft. Write for low prices on quantity orders. Other sizes and mil. weights available up to 40 ft. in natural and black film.
 PHONE BALDWIN 3-8277
 DAYTON NURSERY & GARDEN SALES
 P. O. Box 763 Dayton 1, O.

POLYETHYLENE FILM

1 1/2 mil., black, in 1000-ft. rolls, 3 ft. wide, \$20.40; 4 ft. wide, \$27.00.
 2 mil., natural, in 200-ft. rolls, 4 ft. 2 ins. wide, \$8.00; 8 ft. 4 ins. wide, \$15.00; 12 ft. wide, \$21.60.
 4 mil., natural, in 100-ft. rolls, 3 ft. wide, \$6.00; 4 ft. wide, \$8.00; 6 ft. wide, \$11.20; 8 ft. wide, \$14.40; 10 ft. wide, \$18.00; 12 ft. wide, \$21.60; 14 ft. wide, \$25.20; 16 ft. wide, \$28.80; 20 ft. wide, \$36.00; 24 ft. wide, \$43.20; 28 ft. wide, \$50.40; 32 ft. wide, \$57.60.
 10 per cent discount on orders over \$24.00.
 20 per cent discount on orders over \$60.00.
 35 per cent discount on orders over \$60.00 sq. ft.
 We pay freight if check is with order.
 6 mil. available in widths up to 32 ft.
 ROUGH BROS.
 4229 Spring Grove Ave. Cincinnati 23, O.

POLYETHYLENE FILM

Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.
 .004 mil., all rolls 100 ft. long.
 3 ft. wide by 100 ft. long..... \$ 6.00 per roll
 4 ft. wide by 100 ft. long..... 8.00 per roll
 6 ft. wide by 100 ft. long..... 12.00 per roll
 8 ft. wide by 100 ft. long..... 16.00 per roll
 Other sizes available up to 20 ft. wide.
 Send \$1.00 for liberal sample.
 3 ft. x 10 ft. postpaid.
 Special deal for greenhouse construction.
 5 rolls to 9 rolls, 25 per cent discount.
 10 rolls or more, 33 1/2 per cent discount.
 "We ship same day."
 YOHO & HOOKER
 520 Williamson Ave. Youngstown 1, O.

DUPONT'S WEATHERABLE MYLAR

5 mil., NEW TYPE W-1
 (One side exposure.)
 42 ins. wide x 100 ft. long roll \$52.50
 48 ins. wide x 100 ft. long roll 60.00
 54 ins. wide x 100 ft. long roll 67.50
 1000-ft. rolls, same widths, 13 1/2¢ per sq. ft.
 FREIGHT PREPAID, CASH WITH ORDER.
 5 mil., TYPE W-2 (two side exposure) also available. Write for prices and information.
 ROUGH BROS., INC.
 4229 Spring Grove Ave. Cincinnati 23, O.

PLASTIC POTS

WILSON HIGH IMPACT
 POLYSTYRENE PLASTIC POTS
 Attractive mottled colors in utility grade, sold in utility cartons only. All priced F.O.B. Dayton, O.

	Per 1000	Wt.
2 -in., round, 1000 case	\$ 12.50	13 lbs.
2 1/2 -in., round, 1000 case	15.00	24 lbs.
3 -in., round, 1000 case	19.00	38 lbs.
4 -in., round, 500 case	35.00	32 lbs.
4 -in., round tub, 500 case	35.00	33 lbs.
5 -in., round, 300 case	66.00	38 lbs.
6 -in., round, 120 case	120.00	34 lbs.
6 -in., round tub, 120 case	105.00	25 lbs.
6 -in., round, 72 case	175.00	30 lbs.
2 1/4 -in., square, 1000 case	12.50	15 lbs.
2 1/2 -in., square, 1000 case	15.00	22 lbs.
3 -in., square, 1000 case	19.00	36 lbs.
4 -in., square, 500 case	35.00	33 lbs.

 Also available in solid pastel colors. Write for quote on colors. Send fifty cents (50¢) for complete set of samples postpaid.
 DAYTON NURSERY & GARDEN SALES
 P. O. Box 763 Dayton 1, O.
 Phone Baldwin 3-8277

POTS, LOW COST, LIGHTWEIGHT
 Ritter-Wilson plastic plant pots cost less to buy, handle and ship. High impact plastic assures rugged durability, unbreakable in normal use! Available in round and square pots, tubs, bantam flats and saucers. Wide range of popular sizes. Switch to Wilson pots NOW. For free samples, write to:
 RITTER-WILSON, INC.
 Dept. XX, P. O. Box 8216 Orlando, Fla.

WILSON PLASTIC POTS

Complete line in stock.
 Ask for price list.
 MESKERS BULB CO., WALDWICK, N. J.
 Phone OL 2-5296

PRINTING

Letterheads, 8 1/2 x 11 ins. Envelopes, 6 1/2 size, 250 of each, \$6.50. Postpaid to zone 3; beyond 3, add 5 per cent.
 H. Grebe, 306 Union St., Royersford, Pa.
 Decorated shipping and garden center tags, labels. Printing, mimeographing.
 Wm. Evenden, 1992 E. 17th Ave., Eugene, Ore.

REED MATS

GUARD 'N SHADE
 DUTCH-MADE REED MATS
 Carefully woven with a generous amount of reed. Durable and easy to handle. Ideal for coldframe protection in spring and fall.
 AVAILABLE IN 3 SIZES, F.O.B. ATLANTIC AND GREAT LAKES PORTS. 6x6-FT. SIZE AVAILABLE FOR IMMEDIATE SHIPMENT. WRITE FOR PRICES.
 McHUTCHISON & CO.
 695-N Grand Ave. Ridgefield, N. J.

SOIL CONDITIONERS

FREE! AUTHENTIC RESEARCH DATA on greenhouse and vegetable growing operations, rejuvenation of sterilized soils, balanced seed beds for optimum growth and disease inhibited plants. Used by commercial growers in 23 countries. World proved and tested.
 CLAIR W. STILLE
 137 Bassett Ave. Lexington, Ky.

SPHAGNUM MOSS

Fresh, clean sphagnum moss, write, or phone City Point 133 for our low prices on wirebound bales in truckloads or cartons.
 Tony Jaromir, City Point, Wis.

STAKES

CYPRESS PLANT STAKES
 50 pieces to bundle
 1x1-in.—3 ft., pointed \$3.00 per bundle
 1x1-in.—4 ft., pointed 3.50 per bundle
 1x1-in.—5 ft., pointed 4.50 per bundle
 1x1-in.—6 ft., pointed 5.50 per bundle
 1x1-in.—7 ft., pointed 7.00 per bundle
 These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."
 WE SHIP SAME DAY!
 YOHO & HOOKER
 Youngstown 2, O.

STAKES, GALVANIZED HARD STEEL
 GALVANIZED tree guying WIRE.
 HOSE for guywire PADDING.
 Prices and samples sent on request.
 SCHUPP SUPPLY CO., WILMETTE, ILL.

Plant Stakes, see large ad under Cane Stakes. McHutchison & Co., Ridgefield, N. J.

TRADE BOOKS

TRADE BOOKS.
 Descriptive book circulars available on request.
 MANUAL OF CULTIVATED TREES AND SHRUBS,
 by Alfred Rehder, \$13.00.
 GREENHOUSES: THEIR CONSTRUCTION AND EQUIPMENT,
 by W. J. Wright, \$3.50.
 GREENHOUSE HEATING AND CONSTRUCTION,
 by H. E. Gray, \$1.50.
 TAYLOR'S ENCYCLOPEDIA OF GARDENING,
 by Norman Taylor, \$7.50.
 CHRISTMAS TREES FOR PLEASURE AND PROFIT,
 by Chapman and Wray, \$3.75.
 PLANT BREEDING FOR EVERYONE,
 by John Y. Beaty, \$2.75.
 THE GRAFTER'S HANDBOOK,
 by R. J. Garner, \$5.75.
 HAVE YOU TRIED PERENNIALS,
 by C. H. Potter, \$3.00.
 PLANT BUYER'S GUIDE,
 by H. Gleason Mattoon, \$15.00.
 PRONOUNCING DICTIONARY OF PLANT NAMES, 25c.
 THE BOOK OF SHRUBS,
 by A. C. Hottes, \$4.95.

These books may be obtained, postpaid, at the publishers' prices indicated, from

AMERICAN NURSERYMAN
 343 S. Dearborn St. Chicago 4, Ill.

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: \$4.50 per inch, each insertion.

Lines: 40c line; minimum order \$4.00.

HELP WANTED

LANDSCAPE SUPERVISOR for Delaware nursery specializing in high-quality landscape work, mostly carriage trade. Applicant must take responsibility for execution of all landscape work (including hiring and firing connected with running four crews and maintenance of four trucks and other related equipment); also assist in preparation of bids for some project work. Designing by others. Applicant must be between 35 and 50 years old; interested in permanent association and must have horticultural background in commercial landscape field including: Good knowledge of cultural requirements of ornamental plants, ability to move large trees and experience with execution of large-bid projects. An unusual opportunity in a young, growing business in a high-income community. Attractive salary, paid vacation, A. A. N. insurance and home in rural setting. Apply Box 2708, Wilmington 5, Del.

HELP WANTED

GARDENER

New York art museum needs gardener to maintain interior court garden and exterior lawn, trees and hedges. 40-hour week, year-round employment. Work clothes provided and noon lunch; Blue Cross and surgical benefits paid by employer. Noncontributory pension plan. Send full particulars of experience, salary expected, etc., to:

Director
THE FRICK COLLECTION
1 E. 70th St. New York 21, N. Y.

HELP WANTED

Salesman to call on midwestern trade for large, old-established, midwestern wholesale nursery, offering extensive assortment. Knowledge of plants desirable, but not essential. Good opportunity for one who can produce. Write fully, stating age, experience and other qualifications. Reply to Box 697, care of American Nurseryman.

HELP WANTED

RETIREE NURSERYMAN

Newly established nursery requires advisory services of experienced landscape man and nurseryman. Minimum physical labor. One-bedroom apartment and modest salary. Write to:

WESTBRIDGE NURSERIES
30 Alwin St. Hyde Park 36, Mass.

HELP WANTED

LANDSCAPE AND NURSERY SALESMAN

Large, prominent Philadelphia concern has opening for experienced man. Highly profitable permanent position with opportunities unlimited. State full qualifications. Write Box 614, care of American Nurseryman.

HELP WANTED

EXCELLENT OPPORTUNITY

Wholesale salesman wanted to sell a complete line produced by one of the leading nurseries in the midwest. Established territory available on commission basis assures excellent income at once. Write Box 646, care of American Nurseryman.

HELP WANTED

NEW CALIFORNIA MAIL-ORDER NURSERY

The Man We Want

Is presently employed by a mail-order nursery as merchandise buyer. His past experience should cover both the buying and selling end of the business.

We want him for

A client of ours located in the beautiful bay area of San Francisco. This firm, an outstanding success with a single product, is now ready to expand into a general mail-order nursery. This is an opportunity to get in on the ground floor.

Interested?

Send background, list of references, etc. All replies confidential.

P. O. MICHELSON
991 Commercial St. Palo Alto, Calif.

HELP WANTED

One of America's largest wholesale nurseries has opening for man experienced in selling packaged line to chain and department stores. Divide time between calling on accounts, purchasing supplies, inventory control, etc. Limited travel.

Located in midwestern state. Salary, bonus and insurance plan. Some college or equivalent business experience. In reply state age, education, business experience and starting salary expected. All replies held confidential. Write Box 696, care of American Nurseryman.

HELP WANTED

AN UNUSUAL SALES OPPORTUNITY

We need three single men to begin training for traveling positions selling nursery stock wholesale. Salary while training—\$350 per month. If chosen for sales territories, earnings of \$1,000 per month or more are possible. Your immediate attention is necessary. Write Box 669, care of American Nurseryman.

WANTED TO BUY

NURSERY AND GARDEN CENTER

Cash-and-carry. Eastern Massachusetts, New Hampshire or southern Maine. Minimum 6 acres. Residence not necessary; will build own. Give location, soil conditions, magnitude of inventory, cash required, when available and other particulars. Agreeable to present owner staying as caretaker or partner. All replies will be answered. Write Box 707, care of American Nurseryman.

SITUATION WANTED

EXPERIENCED SALESMAN

Farmingdale graduate, married, desires position representing wholesale nursery in eastern New York, New Jersey or Connecticut area. Write Box 698, care of American Nurseryman.

FOR SALE

40 acres well-established wholesale and retail nursery. 90 per cent of business done by telephone. 75 per cent of nursery stock salable size. 8000 to 10,000 broad-leaved evergreens, 15 ins. to 4 1/2 ft.; 5000 to 8000 Canadian Hemlocks, 15 ins. to 7 ft.; 1000 Spreading Yews, 12 to 24 ins.; 2000 English Box, 6 ins. to 8 ft.; 3000 to 4000 American Box, 12 ins. to 15 ft.; 3000 or more shade trees, 1 1/2 to 5-in. cal., such as Tulip, Poplars, Sweet Gums, Sugar Maples, Pin Oaks and Copper Beech, and 1200 to 1500 Pink Dogwoods, 2 1/2 to 8 ft. Also many nice specimen White Dogwoods. Other nursery stock not mentioned. Will sell land or just nursery stock. 3 tenant houses, large warehouse and other outbuildings. Located on main highway. Owner retiring.

LITTLE TREE NURSERY
Rt. 1 Roanoke, Va.

FOR SALE

16 acres of land. 12 acres are tillable. 5-room modern home. 33,000 sq. ft. under glass. Small shop, 60 miles southwest of Chicago in DeKalb county. Good spot for florist and nursery business. Cash or contract sale. Write Box 709, care of American Nurseryman.

FOR SALE

One Onarga tractor-pulled trencher to open 4-in. furrow. Used only part of one season.

EVERGREEN NURSERY CO.
Sturgeon Bay, Wis.

FOR SALE

Long-established landscape business in Chicago suburb. Large clientele. Complete, modern equipment. Estate will sell with or without building. Address replies to Box 710, care of American Nurseryman.

FOR SALE

Garden center in northwest Ohio. Valuable location, with 4800 sq. ft. of greenhouses and salesroom, only garden center in center of 60,000 population. Almost stocked for spring; should take in nearly half of purchase price in May. Price \$30,000. Write Box 711, care of American Nurseryman.

SITUATION WANTED

Landscape designer, 40, married, would like position with progressive, well-organized landscape company. 15 years' experience in landscape design and supervision. Resume and samples of my work furnished on request. Will be available April 15. Write Box 712, care of American Nurseryman.

SITUATION WANTED

Married man, horticultural graduate, 10 years' experience landscape foreman, desires position with reputable concern on year-round basis. Prefer location within 3 hours of New York City. Write Box 691, care of American Nurseryman.

FOR SALE**NURSERY SITE**

6.79 acres, 3-bedroom modern house, 2 baths, hot-water heat. 24x44-ft. barn, 485-ft. frontage on heavily traveled U. S. 421. Located at 9650 N. Michigan Rd., Indianapolis, Ind. Pansy and chrysanthemum business already established. Can be enlarged to include garden center, landscaping and general nursery business. Price \$30,000.

ARTHUR E. CAMPBELL
R. R. 2, Box 325F Carmel, Ind.

FOR SALE**OPPORTUNITY**

To acquire one of the largest landscape nurseries in the middle west. Adjacent thriving city consumes trees of all sizes, especially large trees to replace ravages of Dutch elm disease. No advertising required to sell stock. Owner wishes to retire. Write Box 694, care of American Nurseryman.

FOR SALE

10-acre, well-located and well-stocked wholesale and retail nursery on main highway. 900-sq.-ft. propagating house, 600-sq.-ft. lath house. Truck, tractor and modern home. \$10,000 down, balance in 10 years. Wish to retire.

TOWNSEND NURSERY
Hartford City, Ind.

FOR SALE**PIXTONE**

Mechanical stone picker with 1-in. rake. Late 1959 model. Used fall season. Must liquidate equipment.

W. L. OHR
473 N. Main St. Wallingford, Conn.

FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.
Elizabeth 4-9041 Waverly 6-0404
1050 Magnolia Ave. Elizabeth, N. J.

FOR SALE OR LEASE**PEAT HUMUS BEDS**

Located in northern New Jersey. Excellent for packaging or for the manufacturing of peat pots. Also in good locality for bulk sales to florists, nurserymen or garden centers. Please write to: P. O. Box 296, Ridgewood, N. J.

FOR SALE—Attractive garden center set-up in southeastern Massachusetts. Illness forces sale of expensively remodeled 11-room home, 2 barns, 3 outbuildings, 14x35-ft. Orlyt greenhouse, lath house and 10 acres of land. Had excellent reputation for nursery stock, hardy mums, house plants, gifts, garden supplies, etc. A real buy at \$35,000. Write Box 658, care of American Nurseryman.

WANTED—Capable man with \$7000 to invest in growing, expanding nursery and tree trimming business in east Tennessee. In 8 years can own entire business valued at \$35,000 and can earn comfortable living. Address inquiries to Box 704, care of American Nurseryman.

FOR SALE — 210-acre Christmas tree plantation of approximately 100,000 trees (Scotch pine and spruce), with 20,000 ready for harvest. Sacrifice for \$25,000. For details write: J. D. PERRY, R. D. No. 1, Oxford, Pa.

FOR SALE—Clay pots, slightly used. 2 1/2-in. rose pots, \$12 per 1000; \$100 per 10,000. 6-in. tins 8 1/2 ins. deep, \$5 per 100. RICHFIELD NURSERY & FLORIST, 1255 Van Houten Ave., Clifton, N. J.

FOR SALE—Florists' shop, roadside, on Jericho turnpike. 6500 sq. ft. of greenhouses. 24x48-ft. garage and work building. Bungalow. 3 acres land. NESCONSET FLOWER FARM, St. James, L. I., N. Y.

INSECTS, FOURTH MEETING TOPIC AT PORTLAND

The fourth in a series of educational meetings for growers was held at the Portland Wholesale Nursery Co., Portland, Ore., the evening of March 15. There were about 75 in attendance. Ray A. McNeiland, county extension agent, Gresham, introduced the speaker for the evening, Knud Swenson, entomologist, Oregon State College, Corvallis. His subject was "Insects, Their Identity and Control."

Mr. Swenson began by saying that the variety of troublesome insects is great; among them are those which eat everything from chocolate to lead cable. Almost every kind of plant has its insect enemies. He first talked about those insects which go through a metamorphosis, emerging from eggs and then going through grub, larval or pupal stage before reaching the adult stage. His comments were illustrated with color slides.

Holly bud moth, leaf roller and various other moths which in the larval stage or sometimes as adults cause considerable plant damage were discussed. Leaf rollers, he said, should be attacked with spray before they become rolled in the leaf; otherwise they are extremely difficult to reach.

Many insects, such as the European corn borer, corn-ear worm, etc., can be kept in check simply by keeping weeds down. Millers are all the adults of cutworms. Tent caterpillars do not spread over much territory during a given season, principally because the adult females are wingless.

Beetle Pests

Next he discussed beetles, which have the same type of life cycle as moths. Grubs of rain beetles, recently discovered in Oregon, feed on tree roots. These beetles come out of pupal stage late in the day on rainy days; hence their name. Wireworms in gladiolus bulbs pose a double problem, he said. First there is the physical damage caused to the corms by the worms and second there is the danger of disease's entering the corms through the damaged area.

Bark beetles cause extensive damage in coniferous forests, and shot borers attack fruit trees. Ground beetles are beneficial, inasmuch as they feed on soft insects. Ladybird beetles, too, feed on aphids and scale insects.

Flies were discussed next. They go through the same stages of development, being called maggots in the

PREMIER

is

PREMIER

...in QUALITY

...in PACKAGING

...in PROFITS

The
self-selling
colorful
line

BALES: COMPRESSED

Large Bales
7 cu. ft.



Plastic Bales

6, 4, 1 1/2, 3/4 cu. ft.

Poly-laminated inside and outside

**BAGS: BULK-PACKED
READY TO USE**

Now in
**King Size
Bags**

ready to use



King Size Bags

6 & 3 cu. ft.

poly-laminated outside
with separate
poly bag inside

Also
**European
Peat Moss**
10 1/2, 7 1/2, 6,
4 1/2 cu. ft.
bales

PLASTIC PACKAGES



3 & 1 pack

Any combination shipped in one carload
Send for prices now

Premier Peat Moss Corp.,
535 Fifth Ave., New York 17, N. Y.
Murray Hill 2-8586

PREMIER
Spaghnum
PEAT MOSS

NEW TYPE PLANT FOOD SPREADER FOR NURSERIES...

Cyclone

5 to 10 Times Faster
than Ordinary Spreaders

This great new Cyclone Spreader distributes a 6 to 8-foot swath of granular plant food evenly and quickly. The throwing action of the Cyclone spreads plant food under shrubbery, in close to fences and markers and over high and low spots. High-wheel design moves easily over uneven ground. Fast, efficient, long lasting.

Also an excellent seeder and distributor of dry granular herbicides and insecticides as well as salt, sand and lime. Available from lawn and garden supply stores, distributors or contact us direct. Also, world's leading manufacturer of hand seeders.

CYCLONE SEEDER CO., INC.

Urbana 65, Ind.

Attractively Packaged Potting Soils



SCIENTIFIC COMPOST ACTIVATOR—Millions of essential soil bacteria per gram—Aids composting raw leaves, etc. Activates and deodorizes hotbeds—Deodorizes outdoor toilet—Activates dead soil.
2 qt. bag—Treats 500 lbs. raw organic matter. 18 bags per carton. 30c per bag; \$5.40 per carton. . . . Weight per carton, 36 lbs.

5 Different Types That Have Sold and Been Used Successfully.

Freight Prepaid or Full Freight Allowed—Minimum prepaid shipment, 200 lbs.

You Know Your Cost Price with These Delivered Prices!

Item	Bags Per Carton	Weight Carton	Per Bag	Per Carton
VIRGIN POTTING SOIL (Special for African Violet and House Plants)				
1 qt. Plastic Bag	.36	36 lbs.	\$0.12	\$4.32
3 lb. Plastic Bag	.18	54 lbs.	.20	3.60
AFRICAN VIOLET SOIL (Containing Prehistoric Marl and Colloidal Humus)				
1 qt. Plastic Bag	.36	36 lbs.	.12	4.32
3 lb. Plastic Bag	.18	54 lbs.	.20	3.60
PEAT HUMUS-NEUTRAL (Hi-Nitrogen Soil Enricher)				
1 qt. Plastic Bag	.36	30 lbs.	.12	4.32
3 qt. Plastic Bag	.18	45 lbs.	.20	3.60
1 bu. Plastic Bag	.3	60 lbs.	.75	2.25
GRANULATED PEAT MOSS-ACID REACTING				
1 qt. Plastic Bag	.36	25 lbs.	.12	4.32
3 qt. Plastic Bag	.18	40 lbs.	.20	3.60
1 bu. Plastic Bag	.3	45 lbs.	.75	2.25

GOLBY PIONEER PEAT COMPANY

P. O. BOX 115

HANLONTOWN, IOWA

Phone 39—Evening Phone 28

BEGINNING IN THE NURSERY BUSINESS

By John J. Pinney
Articles from the American Nurseryman: Retail salesyards, landscape nurseries, garden centers, mail-order nurseries, agency nurseries, container stock, financing and keeping records. 64 p. (1958)\$1.00

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.

A Real Money-Maker BIG TREE MOVER

Two Sizes—Fits Any Standard Truck

Write for details.

WILLIAMS & HARVEY NURSERIES

P. O. Box 8822 Kansas City, Mo.

worm stage. Some flies, too, are beneficial, he said. Among those causing considerable damage to nursery and horticultural crops are the boxwood leaf miner, the holly leaf miner and the sawfly. He called attention to the benefits of bees, through pollination, and wasps, which are parasitic on some other harmful insects.

Aphis and Scale

Then he discussed insects the life cycle of which differs from that of metamorphosis. These kinds hatch into insects resembling the adults. Among the worst of these pests are the aphis, which winter mostly as eggs. Then in summer the females produce generations of live young without mating.

In some cases, aphis cause galls, he said. In most cases, however, the damage occurs through the loss of sap, which weakens the plant. One of the most serious problems with aphis, however, is through their roll as vectors, transmitting disease from sick to healthy plants. Many viruses are transmitted in this way. Root aphis are the most difficult of the aphis to control, and they often cause severe damage.

Scales, especially the armored type, are difficult to kill. An accompanying problem occurs with scale, due to the excretion upon which sooty mold develops. For their control he recommended oil sprays during the winter months and other sprays at the time the insects are emerging from their armor.

The leaf hopper is principally responsible for the transmission of the dreaded yellows disease, which attacks asters and other plants. He dealt briefly with wood roaches, grasshoppers, crickets, etc. Crickets cause considerable injury at the time the eggs are inserted into woody stems.

Red spiders overwinter by eggs on woody plants. Highly injurious on pears, he said, are blister mites. A serious pest on holly, not detected until recent years, is the rust mite, which cannot be seen even with a 10-power magnifying glass.

Insecticides

Whereas insecticides used to be classified as either stomach poisons or contact poisons, nowadays most of them cover the control measures for a wide variety of insects, he said. They fall mostly into two types, chlorinated hydrocarbons or phosphates. He then discussed various insecticide types and their action.

Lindane, he said, is good but more

• Seattle

• Portland

We don't have customers in Hawaii and Alaska — but

← **From Coast to Coast** →

• Boston

• Buffalo

• Elizabeth

• Salt Lake City

• San Francisco

NEW YORKER BAG & BURLAP CO.

• St. Louis

is known as a reliable source of Burlap,

especially

NO-ROT

• El Paso

• Houston

For further information and immediate attention call Elizabeth 4-3115 (collect) or mail this coupon.

➡

new yorker bag & burlap co.
651 MARSHALL STREET, ELIZABETH, N. J.
ELIZABETH 4-3115

NEW YORKER BAG & BURLAP CO.
651 Marshall St.
Elizabeth, N. J.

Send sample and price list on No-Rot.

Mr. _____

Company _____

Address _____

City _____ Zone _____ State _____

costly than DDT. The phosphates which were first developed, such as TEPP and Parathion, were highly toxic. The new ones, such as malathion, are far less dangerous to handle. Their residual effect is longer lasting than that of DDT, he said. But, he warned, no matter how "safe" an insecticide may be rated, care should be exercised when handling it. Repeated exposure is dangerous, even with the safe ones. Growers were urged to follow the precautions to the letter.

He then talked about the systemic insecticides, such as Systox and Nematon, and said they are designed mainly to control the sucking insects. New ones with greater coverage are anticipated. Most miticides are fine, with little or no resistance to be expected by mites when these materials are used on nursery stock outdoors. However, inside the greenhouse, resistance often takes place.

Bacteria-type sprays offer an excellent method by which to control some insects. The use of viruses in insect control holds much promise, said Mr. Swenson.

Concerning the spread of viruses, he said that an insect can infect a plant with a virus disease in as little as 10 seconds. The increasing number of pests is due to the increased acreage and concentration

NOW... YOU CAN BUY ONE MACHINE
TO HANDLE THREE OPERATIONS

MODEL 4-EV

W-W
COMPOST GRINDERS & SOIL SHREDDERS

SHREDDER-GRINDER
with DETACHABLE ELEVATOR

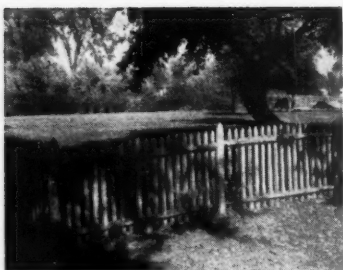
This W-W heavy-duty Model 4-EV Shredder-Grinder with elevator gives you maximum useage of your equipment. You can shred organic matter — stalks, prunings, garbage, bones for faster composting or for mulch — or you can grind, shred, screen, or mix soil, compost, peat moss, hard manure, etc., and load or pile it automatically. The elevator detaches from the basic shredder-grinder, and since both of these units have independent power you can use them separately. The shredder-grinder unit has interchangeable grinding screen and shredding roller bars to give you the ultimate in versatility. Priced at only \$782.40. Portable models available, starting at \$96. All prices f.o.b. factory. Liberal financing. Write for free literature.

W-W GRINDER CORP.

2957-F NORTH MARKET • WICHITA 4, KANSAS

Model 4-EV being used as a shredder-grinder only.

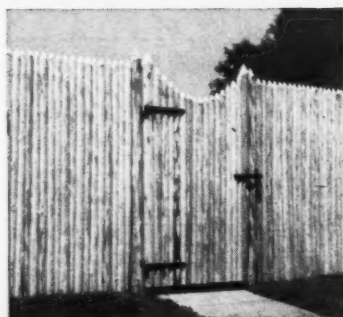
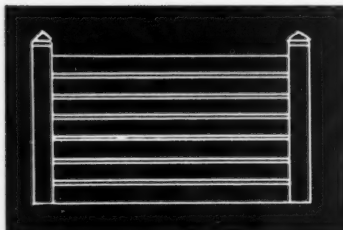
Model 4-EV elevator used as a loader separately.



ADD A LINE OF FARLEY FENCE TO MAKE PROFITS GROW!

Fencing is the ideal complement to a thriving nursery business.

Fills in seasonal lulls in early spring and late fall. Adds the finishing touch to landscaping. But—before you add any fence line, consider this: **ONLY FARLEY OFFERS THE LARGEST AND MOST COMPLETE LINE OF FENCES!** Styles

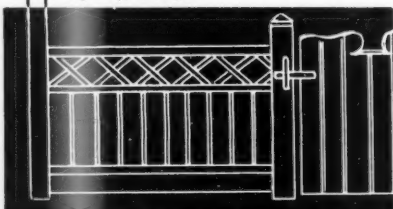


available in smooth, dimensional types and rustic cedar.

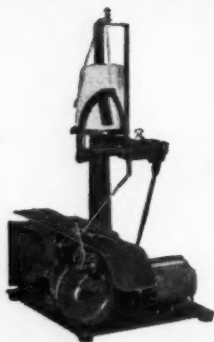
**FARLEY
FENCES**

All expertly constructed and priced right. Write now for full information!

Dept. AM
317 Davidson Bldg.
Bay City, Michigan



NEW FELINS AUTOMATIC TYER FOR TYING NURSERY STOCK — CUT FLOWERS



Model F-4-N

Fast — Efficient — Rugged

- Geared to 80 ties per minute.
- Adjusts automatically to any size bunch up to 19 ins. in circumference.
- Places a uniform tie around a bundle making a firm nonslip knot.
- Lightning fast. Ties roses, glads, seedlings, cut flowers, as well as any other type nursery stock.
- Uses cotton twines 3 to 24-ply, tapes and braids, fine sisal and jute.
- **WRITE FOR CIRCULARS AND PRICES NOW.**

FELINS TYING MACHINE CO.
3351 N. 35th St.
Milwaukee 16, Wis.

EASY TO MARK

EASY TO READ

SMOOTH

STRONG

**SATISFACTION
GUARANTEED**

WOOD LABELS

Here are prices on a few of our stock sizes:

	Per 1000
3 1/2-in. Tree Labels , copper-wired, painted	\$4.75
(for printing add \$1.50 per 1000—\$1.50 minimum)	
4-in. Pot Labels , painted	3.10
6-in. Pot Labels , painted	3.80
12-in. Garden Labels , painted (250 per box)	17.20

Write for complete price list on all sizes, plain and painted. Prompt delivery. Samples on request. Dealer inquiries welcomed.

ANTHONY & CO., INC.
1501 North 23rd St. Escanaba, Mich.

of plants. This, in turn, causes greater cost in connection with the control of insects. C. H. P.

CALIFORNIA NOTES

San Francisco's board of supervisors has appropriated \$645,940 to start landscape developments on a civic center garden. The garden will be planted at ground level above a newly completed underground parking lot and is expected to be completed by April, 1961. It will include a reflecting pool, which will be 70 x 240 feet; waterfalls; spray fountains, and extensive ornamental plantings, which will hide the ventilating shafts and other structural parts of the parking facility.

Ground has been broken for a new floral fiesta building on the San Mateo county fairgrounds, San Mateo. It will be used for the display of commercial exhibits during fiestas and will be used as an industrial display building during conventions at the times when the fair is not in operation. The fairgrounds are being developed into an all-year facility for local club meetings, conventions and for some sports events. The city of San Mateo is aiding in this development of the fairgrounds as part of its campaign to attract more and larger conventions.

The recreation and park commission of San Francisco has appointed Percy H. Brydon as director of the Strybing Arboretum in Golden Gate park. Mr. Brydon was manager of the Botanic Gardens at the University of California, Berkeley, for many years until he went into business for himself in Oregon about 10 years ago. He is a native of Scotland and had his botanical and horticultural training there. He succeeds the late Eric Walther, who retired in 1957. Jack Spring, chief nurseryman at the park, has been acting director since Mr. Walther's retirement.

Alameda county nurserymen have been cautioned by their farm adviser that wood ashes, which are commonly used as a fertilizer in some parts of the country, are not recommended for most California soils. The report indicates that wood ashes are alkaline in their reaction and therefore undesirable in an area where most of the soil and irrigation water are already alkaline. The ashes usually contain about 1 to 2 per cent phosphorus and 3 to 7 per cent potash.

Pat Antonelli, Antonelli Bros., Santa Cruz, is quoted as recommending the use of fir bark for the starting of tuberous begonia tubers. He recommends that "when the eyes of the begonia tubers begin to sprout

causes
h the
P.

super-
40 to
on a
n will
ove a
park-
com-
clude
e 70 x
ntains,
ntings,
shafts
of the

a new
e San
San
display
fiestas
ustrial
ntions
air is
ounds
l-year
, con-
vents,
ing in
ounds
attract

mmis-
ointed
of the
Gate
ger of
niver-
many
ess for
years
d and
ultural
e late
1957.
an at
rector

a have
diviser
nmon-
parts
ended
report
alka-
refore
most
er are
usually
phos-
otash.
Bros.,
ecom-
for the
ubers.
e eyes
sprout

and turn pink it is time to get them ready for planting. Fill an ordinary nursery flat with fir bark. Space the tubers three inches apart on top of the medium so that there is enough space between the tubers to permit root development. Then cover the tubers with about one-half inch of fir bark. After the planting is completed, see that the fir bark planting medium is kept moist, but not soggy. When the tops are about three inches high, the plants are ready for setting out in permanent beds or for shifting into pots." Mr. Antonelli has found this to be an improvement over the system of setting the tubers on damp peat moss.

Ernest Rauchwerger, an agricultural pest control operator in San Francisco county, has bought the business and the equipment of Paul Blackmer, a San Mateo county agricultural pest control operator with headquarters at Menlo Park. Mr. Rauchwerger will have his headquarters at Redwood City. Mr. Blackmer has established a general contractor's business at San Mateo.

Park Foreman George Hood, Palo Alto park department, was pictured in the local press twice in recent weeks: First on March 7, when he assisted at the planting of the Max Leonard appreciation tree by the California Arborists Association on Arbor day, and again as one of those assisting in the first plantings of trees used in landscaping an open cut opposite a new underpass in south Palo Alto.

W. B. B.

THREE NEW TANGERINES

Three early-maturing tangerine hybrids have been developed by United States Department of Agriculture scientists from crosses between the tangerine variety Clementine and the tangelo variety Orlando.

Robinson, earliest of the hybrids, sometimes breaks color by September 15 and reaches prime eating condition in late October. Osceola is high colored and is lower in solids content but higher in acids content than Robinson. Both fruits are of medium size. Lee, the third hybrid, resembles an orange in size and shape, has medium solids content and rather low acids content. Osceola and Lee are best for eating in November.

U. S. D. A. horticulturists P. E. Reece and F. E. Gardner, who selected the hybrids, warn against extensive plantings until more information is available on cold tolerance, rootstock preference, disease and insect susceptibility and pollination habits.

MONARCH LOW-PRESSURE NOZZLES

for
MIST
PROPAGATION

- 1 Only 25 lbs.' pressure needed for maximum coverage (4 to 5-ft. beds) and most efficient spray.
- 2 No costly high-pressure pumps needed—only the 25 lbs. available in most greenhouses.
- 3 Uniform, even distribution with full coverage over the entire bed. Different capacity sizes for both indoor and outdoor beds.
- 4 F-97-W wide-angle (160°) nozzles were specifically developed for mist propagation. Accurate, uniform, precision machined from brass bar stock, available in either 1/8, 1/4 or 3/8-in. male or 1/4-in. female pipe connections.
- 5 Minimum of maintenance required—no baffles or targets to disturb or adjust.
- 6 Inexpensive—only \$1.72 each, F.O.B. Philadelphia, Pa.

Write for Circular No. 4158

MONARCH MFG. WORKS, INC.
3406 Miller St. Philadelphia 34, Pa.

Western Distributor
W. A. Westgate Co., Davis, Calif.

BRAND NEW Packaged Humidifier

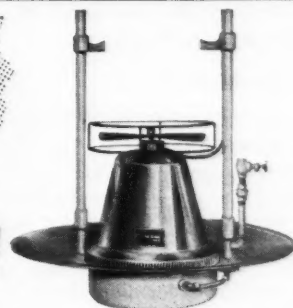
**EASY TO INSTALL!
DO IT YOURSELF!**

Ideal for individual unit installation, the Model IH-27B Humidifier is inexpensive to own, economical to operate. Complete with all hangers, brackets and fittings supplied for easy installation

STANDARD ENGINEERING WORKS

Pawtucket, R. I.

Write for prices
and bulletin



Standard Model IH-27B
Complete with automatic
humidity control. Just hang
unit, connect to water and
electricity.

Effects of Photoperiod and Fertilizing

Growth of Woody Ornamental Plants, Topic at Recent Michigan Convention

EFFECTS OF PHOTOPERIOD

The seminar on the effects of photoperiod on woody ornamental plants conducted by Dr. Harold Davidson, department of horticulture, Michigan State University, began with a review of some early work by Garner and Allard with respect to tobacco and studies on the cocklebur. It was pointed out that this early work established the fact that some plants definitely respond to variations in the length of the day and night and, as a result, plants were categorized into various groups; namely, short-day plants, those that flowered when the day length was shorter than a certain critical period, and long-day plants, those that flowered when the day length was longer than a certain critical period.

Doctor Davidson indicated that considerable interest has been shown in the effects of photoperiod on woody plants during the past five or six years. Much research has been done relative to the vegetative expression of woody plants and some on the propagation of woody plants as influenced by variations in the photoperiod. As far as the vegetative response is concerned, it was noted that some woody plants respond to photoperiod; other woody plants do not. For example, plants such as *Acer negundo*, *Cornus florida*, *Populus alba*, *Rhus glabra* and *Weigela florida* grow continuously when exposed to long days, whereas other plants such as *Quercus borealis* and *Rhododendron catawbiense* grow in flushes when exposed to long days.

The plants that respond to long days will go dormant within three to four weeks when transferred to short days. The response to photoperiod is not too clear on other plants, such as the lilac, forsythia, certain oaks, pyracantha, abelia and many others.

Effect on Flowering

With respect to the flowering of woody plants, Dr. Davidson indicated that not too much information is available at the present time. It was pointed out that *Hybiscus syriacus* and *Abelia grandiflora* appear to flower under long days. Recent results with the rhododendron tend to indicate that the plant may require long days followed by short days for the best development of flower buds. Current research on the

flowering of weigela tends to indicate that this plant requires short days for maximum flower bud initiation followed by long days for the expression of these flowers. He indicated that plants growing at Michigan State University at the present time are in full flower following six weeks of long days, while other plants under short days have failed to break bud.

It was indicated that plants that are sensitive to long days are also sensitive to winter injury, as a result of not hardening up properly prior to the onset of cold temperatures in the fall. Dr. Davidson indicated that it might be feasible to shorten the day length for some plants in order to induce winter hardiness. This would be feasible only over certain propagation areas rather than out in the nursery row.

It was pointed out that the night period is the important part of the photo cycle, since interruption of the night period by one period of light or by a series of flashes of light each hour during the night

causes the plant to continue growth rather than to go into dormancy as would be expected.

With respect to propagation, it was indicated that long days may aid in the root development of some plants and that exposing stock plants to long days may also be of value. However, additional information needs to be compiled before the effect of photoperiod on the growth and development of woody plants will be thoroughly understood so that this knowledge may be put to practical application in the production of woody ornamental plants, as is the practice for certain floricultural plants.

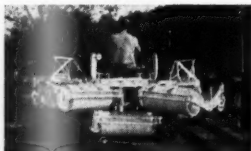
LIQUID APPLICATIONS

The discussion of liquid application of fertilizers, insecticides and herbicides at the Michigan convention covered application by hydraulic spraying equipment. Carl Oliver, Pontiac Mills, Mich., spoke briefly on weed killing, mentioning that it is a well-established program

Increase Profits on... CONTRACT MOWING



3-gang lift-type model for industrial lawns, schools, parks, estates. Note elimination of hand trimming.



5-gang lift-type fold-back model for greater mowing capacity and quick transport between jobs.



7-gang Hi-Cut model for mowing highway medians, airfields and industrial acreages.

Enjoy the summer long business in your area to be had from mowing industrial plants, highways, toll roads, airfields, government installations, schools, estates and others who want to contract out this work.

Roseman gang mowers, used since 1916 on Championship golf courses, parks and estates are designed to efficiently mow fine lawn areas at lowest cost.

Models are also available for Hi-Cut mowing of Airfields, Highways, and large industrial acreages. In 3, 5, 7 and 9 gang sizes, cutting swaths up to 21 feet at one pass.

Mowing capacity at 2-3 times the rate of forward travel is the secret of lower cost mowing.

Quality construction, non-breakable side frames, heavy-duty riveted reels and Timken bearings, give Roseman users trouble-free service for years.

Contract mowing in Summer, snow removal in Winter and planting in Spring and Fall help keep crews together, mean added business and profit.

Investigate these added profit possibilities today. Write for descriptive literature, low prices and availability today.

Use and recommend Roseman Hollow Roller Drive gang mowers. The choice of Tam O'Shanter and other championship golf courses.



ROSEMAN

MOWER CORPORATION

2623 CRAWFORD AVE.

UNIVERSITY 4-1842

EVANSTON ILLINOIS U.S.A.

Now! Save Up To 50% with

Thriftipots

**Heavy-Duty Tar Paper Pots
Made of 45-Lb. Tar Paper**

DELIVERED FLAT



Mail \$1.00 for 10 samples of Thriftipots, 2 of each size.

- Assemble as Needed
- **SAVE** on Freight
- **Larger Pots**
- **SAVE** Storage Space
- **Heavier-Duty Pot**
- **Lower Cost**

Pot Size	Dimensions of Finished Pot	Price per 1000	Weight per 1000
1—Perennial Pot	4-in. diam., 4 1/4 ins. high	\$18.50	178
2—Perennial Pot	4-in. diam., 5 1/4 ins. high	22.50	230
3—Perennial Pot	5 1/2-in. diam., 5 1/4 ins. high	25.50	258
4—Mum Pot	6 1/2-in. diam., 6 1/4 ins. high	34.50	472
5—Rose and Shrub Pot	8-in. diam., 9 1/4 ins. high	43.50	553

OLD ORCHARD GARDENS

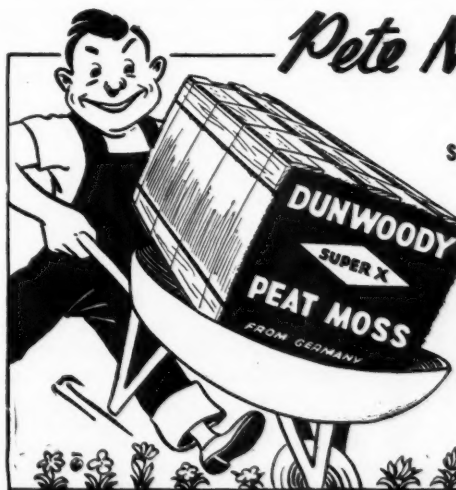


Over one million pots sold to satisfied nurserymen the first year. . . .
Join the parade to profits with Thriftipots. . . . Send for your samples today.

OLD ORCHARD GARDENS

724 E. Big Bend Blvd., Webster Groves, Mo.

and that pelleted forms of effective chemicals had become popular in 1959. He discussed public service act 233, which has been passed by the Michigan legislature and was to become effective about March 15, 1960. This act governs individuals using economic poisons in the form of sprays. Those whose services are for hire will be required to be licensed, the fee to be \$10. Dean Lovitt, assistant director of the division of plant industry, clarified several questions that were brought up and further explained how this act would apply. He stated that applications were being prepared for mailing and that his division would handle the licensing and enforcement of the act. An advisory committee composed of the directors of the departments of health, aeronautics, conservation and water resources, all state agencies,



Pete Moss

**SAYS TO ALWAYS CONTACT
DUNWOODY WHEN YOU
NEED PEAT MOSS. WE
HAVE BEEN SERVING
THE TRADE WITH
QUALITY PROD-
UCTS FOR OVER
100 YEARS**

EZL. DUNWOODY CO.
ESTABLISHED 1849

**10 S. 18th St.
PHILADELPHIA, PA.**



Enhance Beauty . . .

Build Profits . . .

with New

MORRISON Curb and Lawn Edging!

Strong, pliable hot-rolled steel curbing prevents scattering of gravel, break-up and erosion of solid paving materials, encroachment of grass on other planted areas.

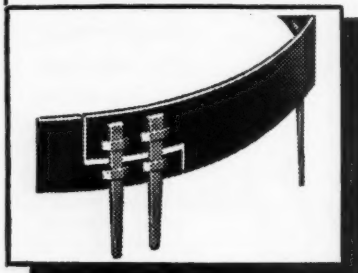
- Heavily coated with special green paint • lasts indefinitely • can't warp, splinter, rot • unaffected by frost • nonporous • impenetrable by roots.

*Write for
complete information*

**MORRISON
STEEL CO.**

**475 Jersey Avenue
New Brunswick, N. J.**

*Installation is simple . . . sections
are just positioned and joined!*



will help the division of plant industry in a consulting capacity.

Mr. Oliver mentioned various bulletins that are available on the subject of herbicides and insecticides at the bulletin office in agriculture hall at Michigan State University. He stressed that proper metering and timing are essential.

Fertilizing

Opening the discussion on fertilizing, William French, Down River Lawn Service, talked on foliar feeding, especially in treating chlorosis on pin oak. In this regard, he mentioned hydraulic application of chelated iron gave the best results.

The chairman, Phil Savage, Turf & Horticultural Supplies, told of a method of fertilizing through bark, adding that this practice is food for future thought and likely to be successful only on thin-barked plants, the urea form of nitrogen being the best type of fertilizer for such use.

The field of insecticides is rapidly advancing, according to Mr. Savage. Thus, it is difficult to keep up with new products being put on the market. Three new materials worthy of mention are Tedion, which prevents the reproduction of mice; Guthion, a product having use for growers of nursery stock, and Sevin, a nonpoisonous insecticide that can replace parathion.

In closing, Mr. Savage stressed the importance of a spreader-sticker to lower the surface tension of the water and as a wetting agent in the use of spray materials.

FEEDING WOODY PLANTS

The seminar on fertilizing woody ornamental plants conducted by Dr. Harold Davidson, department of horticulture, Michigan State University, was begun by reviewing some of the work that was done in the past. VanHelmont, working in Holland during the 17th century, grew a willow branch in a tub of soil, supplying only rainwater for a period of five years. At the conclusion of the experiment, he noted that the tree had increased in weight 164 pounds and that the soil weight had decreased by only two ounces.

VanHelmont concluded from these results that the increase in weight was due only to water; he considered the 2-ounce loss in the weight of the soil as insignificant. Professor Davidson indicated that we know today that these two ounces were highly important. However, he also pointed out that many arborists and nurserymen of the present day are fertilizing their trees by guess-

SKINNER overhead irrigation



Assures better, healthier stands . . .
faster growth . . . bigger PROFITS!

FORGET DRY SPELLS. Your growing stock can have a shower of gentle, penetrating "rain" at the mere turn of a valve. Skinner overhead irrigation also gives you positive protection against frost . . . lets you control soil moisture for easy setting and transplanting.

free literature gives the full story.
Write for it TODAY.

SKINNER SYSTEM OF IRRIGATION The SKINNER IRRIGATION CO.
250 Water Street, Troy, Ohio

. . . for over a half century

The Original SWISS ROTARY TILLERS

3 New Models

THE HACKNEY — 2 speeds and reverse — 5 H.P., 15-in. width cut.

THE MORGAN — 3 speeds and reverse — 5 H.P., 20-in. width cut.

THE CLYDESDALE — 10 H.P. — 4 speeds and reverse, 30-in. cut.

Repair Parts for All Models

E. C. GEIGER CO.

P. O. Box 270
North Wales, Pa.
U. S. A. Distributor

PRINCIPLES OF NURSERY MANAGEMENT

By Willis P. Duruz

Presents the general procedure in modern nursery operations. Contents: Growing of seedlings. Propagation by vegetative methods. Culture. Mixing and storing nursery stock. Pest control and plant quarantine. Selling nursery stock. Business management. 176 pages, 43 illustrations. (1945) \$3.50

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.



Because you can't depend
on rain . . . depend on
**WAIDE RAIN
SPRINKLER IRRIGATION
MUELLERMIST IRRIGATION
SUPPLY CO.**

P. O. Box 471, Maywood, Ill.

work because accurate information is still lacking, even after some 350 years from the time that VanHelmont made his classical experiment.

Professor Davidson indicated that in the area of fertilizing woody plants, major emphasis has been placed on fertilizer analysis, rates, timing and methods of application.

Fertilizer Analysis Factor

In the area of fertilizer analysis, he indicated that many types of analyses are used, such as 10-8-6, 10-6-4, 12-6-6, 12-12-12, 11-48-0, etc. He noted, however, that in a recent test performed at the Michigan State University using a number of fertilizers, there was no significant difference in the growth of *Taxus cuspidata* with the various fertilizer analyses, with the exception that when a 33-0-0 or a 0-0-60 fertilizer was applied at the same rate, three pounds to 100 square feet, there was a decrease in growth.

He indicated that a review of the literature leads one to the conclusion that nitrogen may be the limiting element for the growth of woody ornamental plants and that, if nitrogen is combined with phosphorus and potassium, the responses might be somewhat better. Some authorities report no response to phosphorus and/or potassium, while other authorities tell a definite response. Dr. Davidson indicated that the results undoubtedly varied because of the conditions under which the experiments were conducted.

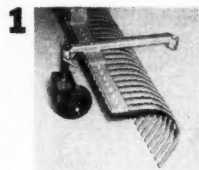
Rates of Application

Rates of fertilizer application vary considerably. For fertilizing trees, the rule of thumb that is followed as a guide is the application of a quarter of a pound of nitrogen per inch of DBH for trees less than six inches in diameter and one-half pound of nitrogen per inch of DBH for trees greater than six inches in diameter. For fertilizing evergreens and deciduous material in the nursery, rates vary from 400 to 800 pounds per acre. In recent studies on taxus in Michigan, it was noted that from one to three pounds to 100 square feet was satisfactory. Rates in excess of four pounds to 100 square feet reduced growth, and rates of 32 pounds to 100 square feet resulted in death of the plant material.

It was stated that time and method of application have received limited study. Some nurserymen prefer to apply fertilizers in the late fall, after growth has ceased, so that the fertilizer will be available for growth in the spring. Other nurserymen pre-

5 REASONS WHY

this **NEW MODEL RE YORK RAKE** grades and landscapes better, easier, faster



NEW FRONT-OR-REAR CASTER WHEEL MOUNTING:

Wheels can be mounted ahead of rake teeth for surface free from wheel marks . . . or behind for faster working of rough terrain.

2 NEW CASTER WHEEL ADJUSTMENT:

No tools necessary to change caster wheel positions or make vertical adjustments. Shafts marked at 1/2-in. spacing for quick, accurate vertical alignment.

3 NEW LONGER-WEARING SCARIFIER TEETH:

Reversible and replaceable heat-treated alloy steel points . . . give double wear.

4 NEW BLADE LIFT ASSEMBLY:

Grader Blade is raised and lowered by Scarifier crank and cable.

5 NEW 3-POINT HITCH FRAME:

Permits all York attachments to be carried permanently on rake.



The new MODEL RE is designed for use with all 3-point hitch tractors. Caster Wheels, Scarifier and Grader Blade are optional attachments. Lighter Rakes also available for light tractors.



TOUGH TEETH!

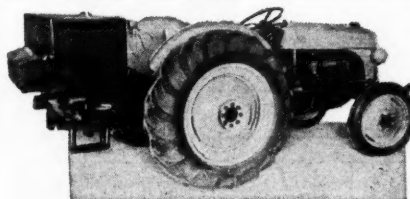
York Rake teeth are tops in toughness. They are made of heat-treated alloy steel . . . tested to stand far more strain than they'll ever see in actual use. That's why they eat up big soil-working jobs in a hurry. "York-quality" teeth are made only by York and used only in York Rakes.

DON'T DELAY . . . ORDER A NEW MODEL RE RAKE FOR 1960

Your dealer will be glad to arrange a trial. For complete specifications, prices and nearest dealer's name, write Dept. AN-420.



MODERN CORPORATION UNADILLA, N. Y.



SKIBBE INSECTICIDE, HERBICIDE and FERTILIZER APPLICATOR

The spreader with the controllable spread.

Modified, approved and used by the plant pest control branch of a national agency for application of granular insecticides. Used by leading universities and growers. Ideal for the coming new granular herbicides.

Write for folder.

SKIBBE MFG. CO.

Sodus, Mich.

BETTER, FASTER PRUNING WITH BARTLETT TOOLS

No. 1-R Pole Tree Trimmer (left) with compound lever head for fast severing of heavy limbs. Cross-rod construction gives double strength and prevents warping and bending. Poles in 6, 8, 10, 12, 14 and 16-ft. lengths. Prices, \$17.00 to \$22.00.

Also available with rope pull (No. 1-W), \$17.00 to \$23.00.

No. 1-W head only, \$11.50.

Delivered in U.S.A.

No. 44 Pole Saw (right) for fast, easy cutting of larger limbs. 16-in. peg tooth blade. 7 teeth per inch. Can be adjusted to operator's position. Poles in 4, 6, 8, 10, 12, 14 and 16-ft. lengths. Prices, \$13.00 to \$17.50.

Delivered in U.S.A.

No. 127 Paragon Saw with silver blade in 18, 22, 24 and 26-inch lengths. 6 points per inch. Extra-large hand opening. Prices, \$5.10 to \$6.75.

No. 114 Rapid Cut Saw. Fastest-cutting of all pruning saws. Diamond-point teeth with well-shaped raker. Extra-large grip. Price, \$9.80. With belt snap, \$10.50.

Delivered in U.S.A.



Bartlett Tree Paint protects and heals pruning wounds. Made with pure Egyptian black asphalt base. Will not crack, blister or freeze.

1/2-pt. cans ..\$0.60
1-pt. cans .90
1-qt. cans 1.60
1-gal. cans .. 3.50
F.O.B. Detroit via express.

BARTLETT MFG. CO.

3058 E. Grand Blvd. Detroit 2, Mich.



NEW

50% LIGHTER
100% STRONGER

HERCULITE POTS

Saves you 50% or more on freight!

- ✓ New! Aeration holes encourage healthy root growth.
- ✓ Stronger! Lighter! Made of impregnated, laminated fiberboard.
- ✓ Completely assembled! Easy to separate. Saves time, labor, money!

- ✓ Tough! Lasts longer in your sales frame — plants really thrive.
- ✓ Saves on freight! Herculite Pots weigh less!
- ✓ Good looking! Styled for sales appeal. No objectionable odors!



EXCLUSIVE THE POT THAT "BREATHES"

Send for **FREE SAMPLE**

Container No.	Size	Top Surface Sq. Ft.	Side Surface Sq. Ft.	Vol. per Container	Weight per Container	1000	1000	1000	1000	1000	1000	1000
33	3"	4"	2"	200	20/	10/	400/	425	43.00			
44	4"	5"	2"	200	28/	14/	140/	150	52.00			
76	7"	6"	3"	100	18/	18/	180/	6.00	56.00			
79	7"	3 1/2"	9"	100	25/	25/	250/	6.50	62.00			
86	8"	7"	6"	100	20/	20/	200/	6.50	62.00			
89	8"	6 1/2"	9"	100	26/	26/	260/	7.50	72.00			
99	9"	7"	9"	100	34/	34/	340/	9.50	90.00			
1010	10"	8"	10"	50	27/	34/	340/	13.00	120.00			
1212	12"	10 1/2"	12"	50	40/	50/	500/	23.00	220.00			

* 300 or more at 1000 rate, F.O.B. Wyandotte, Michigan

HERCULTURAL PRODUCTS CO. Dept. A
2306 Fourth Street Wyandotte, Mich.

"MISTER 100"

Patent Applied For

MIST PROPAGATION NOZZLE—finest ever developed — wide coverage — flat plane of mist. Spaced 3 ft. apart — drilled and tapped holes — 1/4-in., 1-in. or larger pipe. Sample postpaid \$1.00. Satisfaction guaranteed. Send for your sample today.

WHITESHOWERS, INC.
17514 Woodward Ave. Detroit 3, Mich.

BUDDING STRIPS

Headquarters for
GOODRICH BUDDING STRIPS
and
RAFFIA

A. A. Westcoast and
X. X. Superior

Can make immediate shipment.

THOMAS MEEHAN & SONS
428 W. Germantown Pike
Plymouth Meeting, Pa.

fer to apply fertilizers in the spring, after the first flush of growth. Methods of applying the fertilizers in nurseries have been primarily limited to the broadcast system and to fertilizing cover crops prior to the growth of the economic crop, especially if phosphorus and potassium are to be added to the soil.

The use of holes punched into the soil about trees is common in fertilizing landscape plantings. Two variations of the hole method are: (1) The aero-fertil system, in which air is forced under pressure into the holes following fertilizer application. By such a means the soil is aerated in addition to receiving an even distribution of fertilizer. (2) The fertil-jet system, in which an all-soluble fertilizer is injected into the soil under high water pressure.

Water Aids Action

It was generally agreed that moisture should be available following fertilization, to obtain the best results, and that the response to fertilizers will vary with the soil type and the state of nutrition of both the soil and the individual plant or species.

Dr. Davidson indicated that leaf analysis has received limited attention in the area of ornamentals as a means of identifying deficiency and toxicity symptoms. He indicated that this area would undoubtedly receive considerable attention in the next few years. Work is being done at various experiment stations to obtain information relative to the optimum level of nutrition for various ornamental plants. Information is available on pine, spruce, cedar, hemlock, maple, beech and oak, and more recent work has been done on honey locust, taxus, yews and lilac, and as this information becomes available, sound fertilizer recommendations can be made.

MACHINE PLANT CATALOG

Preliminary work is under way at the Connecticut agricultural experiment station, New Haven, on a machine-age way to catalog all of the known plants of the world.

Sydney W. Gould, Madison, an amateur botanist with wide experience in machine tabulation of data, is now codifying scientific names and other facts about the grasses. The study is being made under a grant from the national science foundation and is sponsored by the New York Botanical Garden and the station, which is providing office space. Mr. Gould has been appointed a research associate by the station board of

Where there's a landscaping application **THERE'S A LITTLE GIANT PUMP!**

Add charm and distinction to your landscaping projects with a Little Giant pump. Versatile, compact Little Giant landscaping pumps operate when completely under water. The motor runs in a bath of oil and never needs lubrication.

Little Giant pumps are easily installed . . . no expensive plumbing required . . . pump starts without priming. For years of low cost, dependable service, specify Little Giant pumps for your landscaping projects.

*Send for free list of fountain manufacturers and suppliers.
For complete specifications, contact:*



P. O. Box 7025 • Oklahoma City, Okla.



B I G N A M E I N T H E S M A L L P U M P F I E L D

control. He is assisted by Judith Hirtle, Clinton, and Dr. David J. Rogers, of the New York Botanical Garden, is an associate in the work.

In Mr. Gould's plan, each plant name is assigned a number that itself defines the position of the plant within a genus and family and also indicates in what broad division of the vegetable kingdom the name belongs.

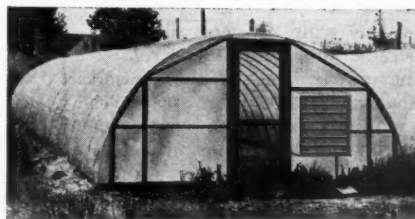
These numbers and related information in punched-card code make possible machine tabulation of lists to show species within a genus, genera within a family and other groupings useful to scientists, nurserymen and others concerned with flowering plants, algae, fungi, bacteria or viruses. No complete listings now exist.

One practical application, Mr. Gould says, lies in coding common names of ornamentals to scientific names, so that catalogs and field markers might carry code numbers only and still be as accurate as the Latin binomial names of science.

OPENED recently was the O. S. Gray Nursery, located at 12816 Preston Road, Dallas, Tex. O. S. Gray, Jr., is general manager of the business.

IT'S PRACTICAL - - IT'S ECONOMICAL IT'S IDEAL

The IDEAL PLASTIC GREENHOUSE by National is one of the least expensive greenhouses ever designed and yet is without a doubt one of the best spring plant money-makers on the market today.



This is a 16-ft.-wide house in lengths from 47 ft. 6 ins. to 97 ft. 6 ins. in 5-ft. multiples. Note that it is free of supporting columns and makes use of one piece of plastic only on the roof. Note, too, that plastic is installed from the ground . . . not off a scaffold or by climbing around on the roof. Two men can easily erect a 97-ft. 6-in. Ideal House in two days. Although this is a relatively new model of house, one of our customers has just ordered his fourth unit . . . proof of his satisfaction with the Ideal House.



It would be difficult to find another house with quality and capabilities offered here at such low prices. Write or phone now for complete data . . . be convinced as to the worth of this truly remarkable house. Immediate shipment.

NATIONAL GREENHOUSE CO.

402 E. Main St.

Pana, Ill.

Insects and Their Control

Scales Discussed at Recent Michigan Convention

SCALE INSECTS

There are numerous scale insects which attack plants grown in the nursery. Without getting involved in too much technical detail, one can divide scale insects into two types, said Dr. Julius R. Hoffman, department of entomology, Michigan State University.

Armored scales are those which secrete a distinct protective covering of wax and which, after the crawler stage, lose their legs and so settle down for the remainder of their lives on the plant. These scales produce either eggs or living young.

Soft scales do not produce a separate protective wax scale; their hard, waxy body provides its own protection. These scale insects may continue to move short distances even after the crawler stage. In the case of the female, movement continues until the eggs are laid. The legs are retained throughout the scale's life.

Some scales will infest only specific types of plants, while other scale species are more general in their plant attack.

Life Cycle

The life cycle of the scale determines the best time for control. Scales may overwinter as eggs, adults or immature forms. In its crawler stage the scale is generally most vulnerable to chemical control.

The crawler stage is that period of the scale's life when it leaves the mother's protective cover (or after the egg hatches) and before it starts to produce its own protective cover. The scale's mobility and lack of cover make it highly susceptible to chemicals.

After the crawler stage, most scales settle down to feed and begin developing into adults. Some scale crawlers move out to the plant foliage, remain on the foliage to feed until fall and then move back to the new twig growth to settle down before the leaves fall from the plant. These scales will then mature on the twigs.

The adult scales mate (male scales fly), the female then producing either eggs or living young. Depending on the scale species, there are one or several generations per year. Each crawler stage should be treated for control.

The injury caused by scales assumes two forms. The young scales

and adults suck the juices from the plant and thereby weaken it. The end result of the feeding is the production of an excrement called honeydew—a sticky, sweet fluid which falls on the plant and the surrounding area. The honeydew serves as the growth medium for an unsightly black fungus that is known as sooty mold.

Honeydew a Nuisance

The honeydew and sooty mold are both difficult to wash from the plant. Honeydew also attracts flies, wasps, bees, ants and a few other insects. While not harmful to the plant, the bees and wasps may be annoying to the nurseryman. Honeydew produced is in proportion to the scale population. A plant may tolerate a few scale insects, but large

populations may seriously weaken or kill young plants or branches or parts of older plants.

How Scales Spread

The spread of scale insects to and among plants in the nursery usually occurs during the crawler stage. These minute insects may be carried on air currents (usually not an effective means), on birds, animals or on people, or they may be moved about by ants. Where plants touch, they may crawl from plant to plant, but they are probably not strong enough to travel far on their own power. Mortality may be high, but the thousands of eggs laid or young produced compensates for the loss.

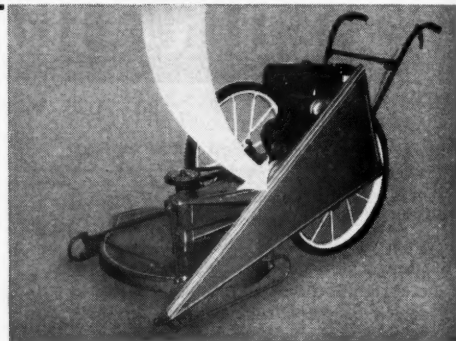
What To Do

As mentioned earlier, the best time to control scale insects is usually during the crawler stage, when they are most sensitive to chemical control. A first-line weapon for scale control is a good hand lens of 10X or more. This enables one to see the crawlers

Another ROOF VP MOWER

Exclusive!

NEW TREE SHIELD and Variable Pitch-Blade Action



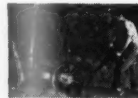
Gives You Maximum Cutting Efficiency!



CUTS WEEDS



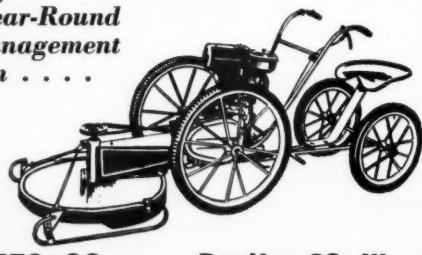
MOWS LAWNS



SAWS TREES

New, quickly attached tree shield permits mowing under and around delicate young tree branches without damage.
VARIABLE PITCH-BLADE ACTION — Permits instant blade-pitch adjustment for any cutting job.
Plus: **NEW SELF-PROPELLED OIL BATH GEAR DRIVE** • 20-in. Saw Blade Attaches Quickly for Tree Harvesting • 26-in. Easy-Glide Wheels • Heavy-Gauge Steel Construction • Adjustable Cutting Height • MULCHES, TOO!!

The Perfect Machine For Your Year-Round Tree Management Program



Get the
Facts
TODAY

Write to:

ROOF MFG. CO.

Pontiac 38, Ill.

NOW! 4 WAYS TO GET A FLOC-FLO PRODUCER

PRODUCTION FLOCKING MACHINE

- CASH • 24 MONTH—TIME PAY PLAN
- 18 MONTH—5 PAY SEASONAL PLAN • RENT

FLOC-FLO CORPORATION

1043 W. RANDOLPH ST.—CHICAGO, 7, ILL.

BURLAP

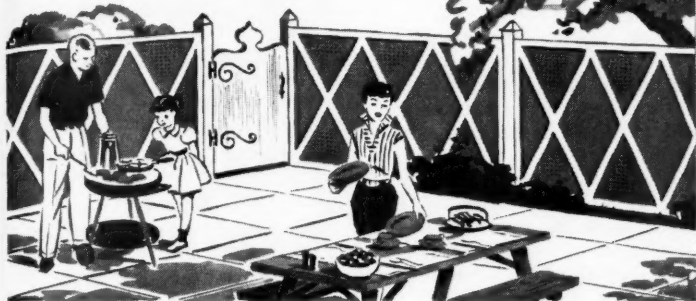
Various Sizes

Write for prices and samples.

STERLING BAG & BURLAP CORP.

41 Carolina St. Buffalo 1, N. Y.
Phone: CL. 2339

No Inventory! No Investment!



Just extra profits the easy way!

Habitant has the way for you to make extra money with no stock and little effort. Use the Habitant Fence sales plan! You get a colorful catalog presentation that you'll be proud to show, together with fence samples and all the help you need to make selling easy. What's more — you'll be representing the best known and most popular rustic and dimensional fence in the country.

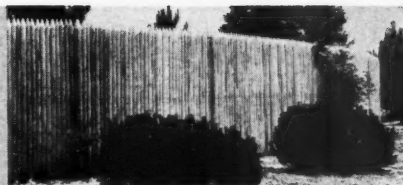
Dealerships available. Send for free catalog and details.



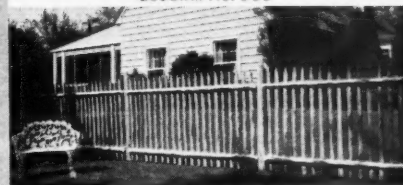
HABITANT



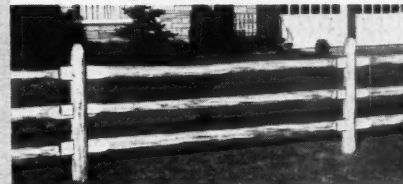
HABITANT FENCE, INC., BAY CITY 3, MICHIGAN



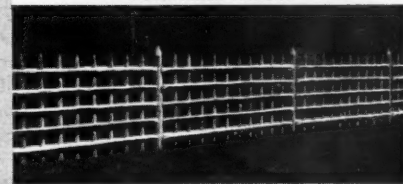
Goodwill No. 900



Cape Cod Picket No. 320



Westchester No. 810



Williamsburg Lattice No. 500

or eggs of the scales and determine their stage of development.

Generally, the eggs are whitish and darken in color as they mature. The crawlers are usually small, flattened and slow moving on small legs. A hand lens also enables one to see how effective his controls are. Those scales which crawl onto the leaves and later return to the plant afford the grower two chances for control.

Dormant sprays of oils or DN (dinitro) compounds may be used before leaves appear on the plants. Because of temperature sensitivity of oil and the discomfort of applying the dinitros, many growers prefer to use later-season control chemicals.

Control the Crawlers

The crawlers of many scales may be controlled by a mixture of DDT and malathion (two pounds of 50 per cent DDT wettable powder, or two quarts of 25 per cent DDT emulsifiable concentrate, plus one quart of 50 per cent malathion emulsifiable concentrate to 100 gallons of water).

Thorough coverage of the plant with this or any other spray material is most important. Any spray selected must be used with care, since some plants may be sensitive to certain chemicals. One should not try

SPRING SALES AIDS

Designed for Garden Store and Landscape Use

This complete kit of promotional helps includes:

Three 4-color banners, 38x111 ins.

Three 4-color banners, 18x60 ins.

Three display cards, 22x28 ins., in color.

Three display cards, 14x22 ins., in color.

One set of 8 newspaper mats.

A sales planner explaining how to use the above materials and how to plan for spring sales promotions.

All for \$275.00 express prepaid.

LANCO, INC.

4625 Far Hills Ave.

Dayton 29, Ohio

P. S.—If you're not completely satisfied, return the kit in 5 days for complete refund or credit.



PROFESSIONAL LANDSCAPING

Easily & Quickly
AT HOME

INCREASE YOUR EARNINGS by rounding out your operations! More and more nurserymen are discovering that a thorough knowledge of professional landscaping—now taught you at home by my new Simplified Methods—pays big dividends in increased sales. Complete training, in residential and commercial landscaping, in horticulture—in the growing, propagation, use and maintenance of ornamentals. Latest information on everything new—new propagation methods, latest insecticides, gibberellic acid, and modern landscape designing. Our training program used by hundreds of nurserymen coast to coast in training and upgrading employees. Plant lists and specialized information for all sections. Attractive diploma and lifetime consultation service for all graduates. Send for **FREE** Booklet. Air mail reaches us overnight.

NATIONAL LANDSCAPE INSTITUTE Dept. N-40A, 11826 San Vicente Blvd., Los Angeles 49, Calif.

clip and mail this
coupon today

SAMUEL CABOT INC.
421 S. Ter. Trust Bldg., Boston 10, Mass.

Please ship _____ pints (12 per case)
@ 50c each

Please ship _____ quarts (12 per case)
@ 75c each

Please ship _____ gallons (4 per case)
@ \$2.40 each

(All prices f.o.b. Boston)

_____ please quote discounts

T.H.P.

to really protect
wounds and
prevent decay



Cabot's Tree Healing Paint is a carefully prepared bituminous paint for protecting live wood and preventing decay. For years, leading arborists and foresters have been using Cabot's because it

- is ideal for painting wounds, cuts, broken limbs
- produces a black, tough, elastic, quick-drying coating
- is made of materials beneficial to trees
- stimulates growth of new bark
- excludes moisture — prevents evaporation of sap
- can be used in any season
- easily applied with paint brush

A quality product from Cabot Laboratories
...manufacturing chemists since 1877

Samuel Cabot

to spray everything in the nursery with one mixture unless he is certain of its safety. For example, DDT will injure privet and honeysuckle. Malathion will injure redbud and *Juniperus virginiana canaerti*. The mixture of DDT and malathion has injured American chestnut.

Parathion has proved effective for the control of juniper scale, but seems to contribute to a build-up of the soft brown scale in the greenhouse. Because of its hazardous nature, parathion should be used in the nursery with extreme care and with use of all of the safety measures suggested on the container label. It should never be used near dwellings or where children or pets may come into contact with it.

Aerosols Also Effective

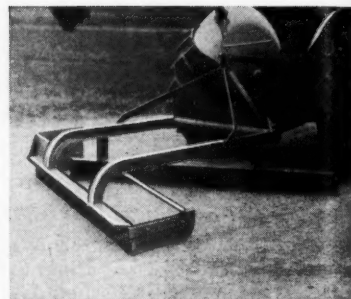
Malathion and Dithio aerosol bombs have proved effective in the greenhouse and propagating house for the control of various scale insects, including the soft brown scale mentioned above. Nicotine sulphate sprays used at frequent intervals (about three to five days) are effective against the crawlers of many scale insects.

A comparatively new insecticide, Sevin, has given highly satisfactory results in the control of leucanium and euonymus scale crawlers, as well as several other species of scale crawlers. Where ants are present along with scales, the ant nests should be treated with chlordane dust, sprays or granules.

One must remember to consider possible injury from sprays. While wettable powders are generally safer to use on plants than are emulsifiable sprays, they may not give such good control of scale insects. In the case of malathion, the emulsion is usually recommended because the control obtained with this formation is superior to the control obtained with the wettable powder.

In some instances the injury done to the plant by the scales may make it more susceptible to pesticide injury. In many cases a plant will grow out of both scale and pesticide injury, but this takes time, and the plant usually brings a lower price. This is true also of plants with scales (Michigan law forbids sale of insect-infested plants).

A check should be made to determine the results of control practices. Using a pin, one may lift up the scale pests and examine them with a hand lens. Some scales remain attached to the plant even though dead. A preventive spray program in the nursery is best for control of scale and other insects. One must



CONVERT YOUR TRACTOR into a ROAD AND LAND LEVELER

Money Back Guarantee

Fits any tractor with a 3-point lift. Reduces labor costs. Saves you money. Thousands now in use. Buy it and try it. If you are not completely satisfied, return it for full refund. **ACT NOW!** For further details and prices write

The GLEDHILL



ROAD MACHINERY CO.
GALION, O.



MR. GROWER:

Big sprayer performance at low cost.

4-piston pump pressures from 20 to 500 lbs., 12 g.p.m. Plastic-coated tanks, 3-point mount, exclusive adjustable booms. New line of models, 15, 20, 50, 200 gallons. Piston pumps, stainless cylinders simple and dependable.

Write for additional information.

SKIBBE MFG. CO.
Sodus, Mich.

always read the label on the pesticide container and follow the directions and precautions given.

PEST CONTROLS

An informal discussion of disease and insect control in the nursery and on the home grounds was conducted by Donald D. Juchartz, Wayne county extension agent, and W. Lane Rushmore, Macomb county extension agent, at the convention of the Michigan Association of Nurserymen.

According to a bill passed at the last session of the Michigan legislature, any person doing commercial spraying has to be licensed by the state of Michigan after the middle of March of this year. It was felt by those in attendance that this will be good for the industry, eliminating many in the field who are lax in their use of dangerous spray materials.

The sale of small-packaged insecticides and fungicides can be a profit maker if properly handled, it was asserted. Too often the material is overemphasized, and it is necessary that the dealer be more emphatic with the customer where proper application procedures are concerned. Poor control is usually due to poor and skimpy application of the material. Complete control programs, such as the removal of infected leaves, are often overlooked by the homeowner. The cranberry scare will create more interested buyers in the season ahead, while the merchant will have to be better informed on his products. A trend toward all-purpose sprays is developing and will gain ground in the years ahead, while specific spray materials should be de-emphasized for home use.

Pre-emergence control of crab grass, applied in the spring, should be timed before the forsythia blooms, it was stated. Poor control is often due to late application.

Mr. Rushmore recommended the Michigan State College nursery bulletin; the handbook of diseases issued by the Colorado State University extension service, Fort Collins, Colo., and the plant pest handbook of the Connecticut agricultural experiment station, New Haven, Conn., as outstanding aids for the grower of plant materials.

DERCKS NURSERY—NO. 2 recently opened at 1508 Highway 80, Dallas, Tex.

OPENING celebration was held recently at the nursery started by Fred McGregor at La Sierra, Calif.

Increase CASH and CARRY SALES

with the Silent Salesman

(The FIRST Complete Marking System)

Progressive nurserymen everywhere — faced with the problems of seasonal sales and a shortage of trained help — are installing the Silent Salesman. This new marking system answers about 90% of all customers questions permitting each salesman to handle many additional people during periods of peak sales.

You, too, can increase your cash and carry business without adding another man. Modern garden centers everywhere are doing it.

write direct for complete information



GROWERS SIGN SERVICE
Dept. A TALLMADGE, OHIO

JACK POT

THE QUALITY PEAT POTS

Willis-Reynolds Corp., Lebanon 3, Ind.

TINA, the brand recommended by the German Nurserymen's Association.

Request our illustrated catalog.

HERMANN A. WIRTH
Levittown, N. Y.

Big BAS-KITS

• STRAIGHT SIDES of WELDED WIRE give more room for roots right where it's needed inside.
• POLY LINED SIDES are durable, attractive and "they breathe."
• OPEN MESH BOTTOMS for perfect drainage, fewer irrigations, less plant loss.

1 1/2 gal. to 2 1/2 bushels

big BAS-KITS
RD 1, New Hope, Pa.

BAS-KITS are sold at TUCKERSONY NURSERY

PEANUT HULLS

A dry, all-organic, practically odorless mulch and soil conditioner.

- High in lignin, decompose slowly.
- Retain moisture and aerate the soil.
- Help control weeds and grass.
- Light and flaky, good area coverage.
- Protect shrubbery, evergreens and flower beds against sudden cold and freezes.
- Excellent material for use in greenhouses.

Available at a low price in carload quantities. Sacked in burlap bags weighing about 40 to 45 lbs. to the sack or in bulk.

"The Best for Less"

We invite your inquiry.

PRETLOW PEANUT CO., INC.
Franklin, Va.

**GROWER
OBTAINS
EXCELLENT
RESULTS
FROM**

Simplex
**SOIL and TISSUE
TESTING**

Simplex Outfits are available
in 3, reasonably priced, sizes
\$28.50, \$36.50, \$54.50
F.O.B. Norwalk, Ohio.



HILLSIDE GREENHOUSES, INC.
COLUMBIA STATION, OHIO
Telephone 3142

Located at intersection
of Route 92 and 212

Mr. A. R. Gilbert, Manager
The Edwards Laboratory
Norwalk, Ohio

Dear Mr. Gilbert:

We have been a customer of your laboratory for many years and wish to let you know of our opinion of the Simplex method of soil testing that you manufacture, the pH meters and solubridges which you sell and our business relationship with your laboratory.

The Simplex method of soil testing has been used in our greenhouses for many years with excellent results and we have found the tests very simple and fast to make and easy to interpret.

In addition to liking your Simplex Soil Test Outfit, we like your firm. Our business relationship has been the finest. In fact, this opinion of your firm prompted us to order our greatly needed pH meter and solubridge from you. The performance of these instruments confirmed our high opinion of your laboratory.

Please accept our best wishes for continued success of your laboratory.

Very truly yours,
Hillside Greenhouses, Inc.
Andrew L. Barber
Andrew L. Barber

EASY AND ACCURATE

Test instructions are simple and test results in parts per million are easily converted to pounds per 1,000 sq. feet or acre by use of tables.

MONEY BACK GUARANTEE

Write for full information and literature

THE EDWARDS LABORATORY

P. O. BOX 318-C

NORWALK, OHIO

Careful Planning Produces Midwest Garden Clinic

The second annual garden clinic presented by the Grand Rapids Nursery and Landscape Association March 16 to 19 at the Civic Auditorium, Grand Rapids, Mich., first began to take shape last year, when members of the G. R. N. L. A. met to formulate plans for the event.

After a discussion that covered the good and bad points of the group's first garden clinic and of others that members had attended, it was concluded that two main objectives should guide planning for the 1960 exhibition.

The first was to keep the clinic a public service presentation aimed at educating homeowners in good landscape design and aiding them with their gardening problems. This meant avoiding any "hard sell" competition for orders between exhibiting firms, which tends to confuse visitors and detract from the educational value of the displays. The second objective was to give the exhibits an effective continuity by means of a well-integrated, over-all design.

With the former objective in mind, G. R. N. L. A. members first decided that no admission fee should be charged. They then agreed to eliminate all commercialism from their clinic exhibits—no firm names were to be displayed or promoted beyond the simple listing of all 44 member firms in the clinic program.

Commercial exhibit space was sold in order to finance the event, but exhibits were limited to wholesale suppliers, so that nothing would be offered for sale, and were grouped together as a trade fair in a separate room adjoining the main clinic displays.

Robert Tuinstra, Fruit Basket Gardens, president of the G. R. N. L. A., who was appointed chairman of the trade exhibits, estimated that sale of exhibit space would produce between \$1,500 and \$1,600. A working budget was therefore set up allowing \$500 each for construction and staging, for advertising and for rent of exhibit and meeting rooms in the Civic Auditorium.

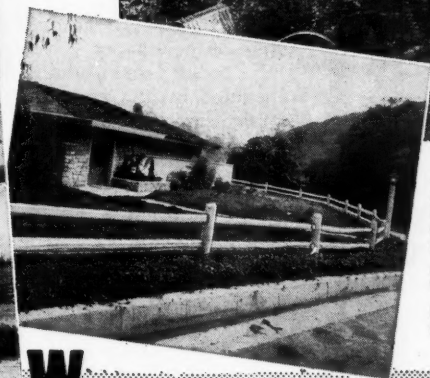
Louis Romence, Romence Gardens, and Bruce Fox, Lakeside Nursery, were appointed general chairmen of the clinic. They, in turn, appointed committees to handle advertising and promotion and to set up the displays.

As chairman of the design and

Screen Type PICKET FENCE

... ADDS PRIVACY TO YOUR LANDSCAPING

Most homes need special screening against unsightly views, around play areas, swimming pools or for containing small animals. Form nice backgrounds for plantings. Dowel construction—easy to assemble. Stringers, posts and half-round palings all peeled, white cedar. Shipped K.D. or in 8 ft. assembled panels. Write for catalog giving heights, etc.



Also Catalog shows Old English Post and Rail Fences — 2 to 5 rail — all types. Have installations throughout U.S.A.

Gates, Lanterns, Rustic Tables and Settees.

Shipped from Toledo or our W. Va. Yards.

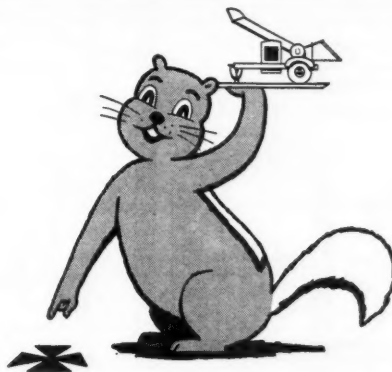
WOOD PRODUCTS CO., Toledo, Ohio

staging committee, James Jones, Jones Nursery & Landscape, began work toward the second objective—an over-all design that would give the displays continuity and greater total effect. Working with Gordon McCarty, a Grand Rapids architect, Mr. Jones hit upon the plan of grouping all displays beneath an open overhead gridwork, which would not only serve as a unifying element, but would also tend to produce an outdoor garden atmosphere in the exhibit area.

As executed, this gridwork consisted of three units, each one a 4-sided, shallow pyramid of stained timbers, resembling a roof framework. These were joined at the corners, checkerboard fashion, and supported with uprights of the same stained wood. Panels set between the uprights served to partition the plots beneath each unit into separate displays.

The display committee prepared and set up the signs and materials for central exhibits, most of which were garden and patio settings, composed of plant materials ranging from ground covers to flowering trees and from annuals to exotic foliage plants. Garden and landscape bulletins were displayed by the Michigan State University ex-

You
name
the
place

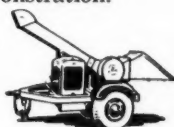


...and without obligation to you, a qualified representative will arrange a prompt demonstration of the fastest, most economical chipper in the world. Then you can see for yourself how aggressive is the new power unit of ASPLUNDH CHIPPERS; how it hungers for great loads of bulky brush; how easily it consumes limbs of 6" diameter.

And remember, the efficiency and economy of the completely safe, simply designed ASPLUNDH CHIPPER has been proven in service by the largest tree company in the world.

You will see, in demonstration, that an ASPLUNDH CHIPPER is, by far, the best buy in chippers on the market today.

WRITE TODAY for FREE illustrated folder and for a demonstration.



ASPLUNDH CHIPPER COMPANY

505 York Road, Jenkintown, Pa.

By Actual Test the Fastest Chipper Made

BUY THE NEW POPULAR PRICED POWER SPRAYER

YOU CAN
**USE
SHOW
SELL**



**"jet-action"
TROJAN**

This latest advance in smoother pulse-free power spraying gives you a new high in safe, easy, low cost operation. And, here's performance and price that sells your customers, especially when they know TROJAN has been proved in your own operation!

- Self-priming 3 G.P.M. pump.
- 2 1/4 H.P. Briggs & Stratton Engine.
- 10 gal. bonded corrosion-resistant tank.

BUY THE COMPLETE LINE



"Spartan"
15-30 gal. cap.



Compressed
Air Sprayers
1-1/2, 3-3/4
gal. cap.



Continuous
Type
Hand
Sprayers



"Cyclo-
Junior"
Crank
Dusters



NEW CATALOG
shows complete line of
Bean-Oakes spraying
and dusting equipment.
Clip coupon now!

OAKES MFG. CO.
An operation of
Food Machinery and Chemical Corporation
Box 2008, Tipton, Ind.
Send new Sprayer Catalog.

NAME.....
FIRM.....
ADDRESS.....
CITY.....ZONE.....STATE.....



tension service, and the Grand Rapids metropolitan architectural league exhibited drawings for a proposed downtown redevelopment plan.

Lecture Program

A series of lectures was presented during all four days of the clinic in an adjacent meeting room. Harold Hunziker, M. J. Hunziker & Sons, Niles, Mich., was a speaker on the lecture program, along with members of the Grand Rapids association and faculty members of Michigan State University.

Promotion and advertising were handled by a committee headed by E. F. Durrant, Durrant Nurseries, Grand Rapids. In addition to the series of newspaper advertisements and radio spot announcements scheduled by the committee, much supplementary publicity was given the clinic by the press and by radio and television stations, because of the educational, public service nature of the event.

As a consequence, attendance at the clinic was excellent, and members of the G. R. N. L. A., well pleased with the results, are already starting work on plans for next year's program.

TAGS BEAR SPRAY DATA

Long Island, N. Y., nurserymen and garden supply dealers are co-operating with the Nassau and Suffolk county extension services in an effort to protect newly planted peach trees against the peach tree borer.

Peach and flowering peach trees offered for sale this year will have a special tag attached to them. This tag carefully outlines the preventive spraying program necessary to protect the trees from the peach tree borer, a serious pest that causes the death of large numbers of Long Island peach trees each year.

OWNED by Eugene Perego, the Hacienda Nursery was recently opened at 2608 Highway 395 south, Escondido, Calif. Offered are tropical, Oriental and semidesert plants, as well as large shade and ornamental trees. A garden shop, a coffee bar and children's play area are features of the setup.

EXTENSIVE remodeling is under way at the Rider Nursery, Fort Madison, Ia. A new garden center and floral shop will be opened in the near future.

GRAZIER NURSERY, on U. S. Highway 169, about a mile south of Nowata, Okla., was recently opened by John Grazier.

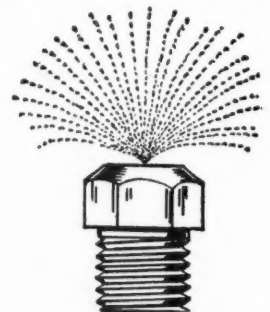
THOMAS GENTLE-FLOW IRI-GATOR



- Designed to provide deep-root watering.
- Induces quicker growth, more bloom.
- Eliminates soil erosion and exposed roots.
- Three times faster than sprinkler, nozzle or soaker.
- Doesn't wet leaves to invite plant diseases.
- Saves water, saves time, saves trouble.
- Rustproof—Breakproof—Foolproof.
- Sturdy POLISHED aluminum and brass.

Exclusive Spun-together Construction
Packed One Dozen to Shipping Carton

THOMAS MANUFACTURING CO.
7011 Mission Rd. P. O. Box 263
San Marcos, Calif.



Pictured above is the Monarch H-261 fog nozzle. It has 3/4-in. male pipe thread and throws 3.3 gallons per hour at 30 lbs. Better breakup of water particles at low pressure.

5 nozzles	\$ 5.50
12 nozzles	12.00
100 nozzles	85.00
Tork 24-hour on/off clock ..	10.95
Tork cycling clock, 1-minute or 30-second adjustment ..	23.95
Solenoid valve, 1/2-in., full ported	23.00

Also strainers, larger valves and other types of nozzles. Booklet upon request, showing many uses for fog in nursery operations.

Postage prepaid—check with order, please.

Satisfaction Guaranteed

MIST-O-GATION, INC.
Dept. A Middletown, Del.

Estimating, Topic Of Long Island Landscape Group

By Robin Todd

The ramifications of estimating in landscape construction were discussed by three prominent landscape planters at the recent meeting of the landscapers' division of the Long Island Nurserymen's Association. The meeting was held in connection with the 14th annual garden show held at Westbury February 27 to March 8. Three landscape architects criticized the gardens in this show.

Robert Titus reported that in estimating landscape construction the prime considerations were the site, necessary labor and equipment. Mr. Titus said that in his firm close records are kept in order to be sure that each part of this complex business pays for itself. They are dividing costs for nursery operations and for landscaping. Records are kept as to the amount of labor, use of trucks and equipment, time spent and the type of work that is done. He thought that there is a need for incentives to insure that the employees work as efficiently and as rapidly as possible. In this way, he felt that the customers would be happy as well as the employees.

John Murphy reported that at Oak Park Nurseries, Inc., East Patchogue, the amount of time spent in estimating depended primarily on the size of the job. Most of the estimates were made hurriedly, but for a public works or commercial bid they really sharpened their pencils and computed or estimated many of their costs to within \$1.50 plus or minus for a 2½-inch caliper tree.

Mr. Murphy also reported that they kept charts, compiled by towns throughout Suffolk county, on their landscape jobs to include the amounts of material and labor that were required, profit or loss and remarks. As a rule, they do not make a profit on their labor, as they attempt to employ 13 men all year around.

Dudley Clayton, Landscape Associates, Inc., Brookville, discussed estimates for the planting of trees. He divided these estimates into four phases, (1) amount of digging required, (2) amount to move tree into position, (3) pricing on caliper and (4) planting costs. Roughly figured, he thought that the estimates

The most recent survey shows that special displays increase the sale of products 652% over normal shelf movement*

YOU ARE ALWAYS ON SPECIAL DISPLAY WITH THIS COMPLETELY STOCKED SELF-SERVICE DISPLAY STAND

CAMPBELL'S GRO-GREEN

concentrates for anything that grows — indoors or outdoors.

Get this year-round profit-making special display stand NOW. Write for details.

*Progressive Grocer—January Issue



H. D. CAMPBELL CO.

Rochelle, Ill.



CORY PEAT CAN'T BE BEAT!

Yes — more Landscape and Nursery Men are changing to CORY HIGH QUALITY FRESH WATER PEAT and PEAT HUMUS. Packaged in plastic lined bags and bulk car and truck loads.



• FOR FURTHER INFORMATION WRITE:
CORY PEAT PRODUCTS CO.

Corry, Pa.

Ornamental Crab Apples, by A. F. den Boer. Foliage, flowers, fruit, forcing as pot plants, etc. 226 p., illus. (1959). \$4.95.
American Nurseryman 343 S. Dearborn St. Chicago 4, Ill.



THIS BIG HAND TRUCK Will Save You Money

Handle heavy jobs easier, faster, with fewer men. Get into places otherwise inaccessible to heavy equipment, without damage to established lawns.

HANDLES 40-INCH BALL
1500 LBS.

Write for folder giving details and prices.

We Make
3 Sizes
of Trucks

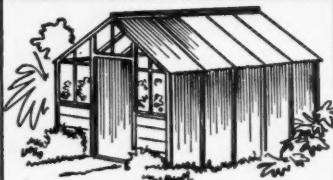
THE GARDEN SHOP, INC.

6315 W. 75th St.
OVERLAND PARK, KAN.

Phone Niagara 2-4838 (Kansas City, Mo.)

Built to
Handle
B&B
Material

BUILD YOUR OWN FIBER GLASS GREEN HOUSE



Fiber Glass provides better distribution of light, thereby enabling you to grow more plants in a smaller area.

Heavy-duty corrugated Fiber Glass sheets manufactured especially for outdoor use available in 34-in. and 40-in. widths by 8-ft., 10-ft. and 12-ft. lengths, in natural color to give maximum light transmission. Also available in decorative colors if desired.

59¢
sq. ft.

Orders shipped promptly.

Freight prepaid on orders
for 500 sq. ft. or more.

coral way products co.

P. O. BOX 162

CORAL GABLES 34, FLORIDA

CANS FOR GROWING

(Unwashed)

Carload or truckload lots.

5c each,

F.O.B. East Paterson, N. J.

Approximately 8000 in car.

**NEW JERSEY FARM SUPPLY
COOP. ASSN., INC.**

447 Market St.
East Paterson, N. J.

PLASTIC TAGS

IDEAL FOR
GREENHOUSE OR FIELD



No. 60. Size 3/4x6 ins.

• RE-USABLE •

Erase and write again!

250	.....	\$3.00	per lot
500	.....	5.00	per lot
1,000	.....	8.00	per 1000
2,000	.....	7.75	per 1000
3,000 to 4,000	.....	7.50	per 1000
5,000	.....	7.25	per 1000
10,000	.....	6.50	per 1000

Colors: Yellow, Red, Blue, Green and White. Colors may be combined for quantity price. Minimum 250 each color.

Net 30 days, F.O.B.
Grand Rapids, Mich.

Free delivery for check with order.

Write for price list and samples of
plain and printed paper tags.

IMPERIAL TAG & PRINTING CO.

312 Straight, S. W. GRAND RAPIDS 4, MICH.

ALUMINUM SUN-FIN RADIATION

Ideal for Greenhouse Heating



**EASILY INSTALLED
IT WILL NOT RUST**

Descriptive literature and
prices sent on request

SUNDERLAND PIPE SHOP

4302 Woodland Ave., Kansas City, Mo.

for trees should go with any other type of landscaping estimates. For a \$600 job about \$200 worth of plant materials would be included; \$200 worth of labor, and \$200 would be charged to overhead. He uses a check list to remind the salesmen as well as the foreman on all details in estimating or planning in the planting of large trees.

John Esterbrook, Bethpage, was introduced by Ed Robinson. He spoke on cost control, especially in the renting of trucks, cars and other nursery or landscaping equipment.

The next meeting of this division will be held April 13 and will deal with salesmanship, billing and collecting and herbaceous materials for landscaping jobs.

Criticize Garden Show

Don Pollitt, Landscape Associates, Inc., then led a discussion reviewing the 14th annual spring garden show. From the management standpoint, it was pointed out that the entire show ran smoothly. There were twice as many exhibitors as last year, and most of them were enthusiastic.

The displays themselves were criticized. Some were thought to have too much plant material and to be definitely overdone, sacrificing beauty, while some had artificial plant material, which it was thought should not have been displayed. In some gardens there was some plant material which normally would bloom in March combined with other material which would normally not be in bloom until three months later.

There was a difference of opinion as to whether large trees and shrubs which had been cut and then held in place should be exhibited, because some landscape men felt that only balled and burlapped material should have been used. Because of the cost involved and because of the fact that there was little prize money for the exhibitors, it was felt that large cut material should be exhibited.

PLANTING TO RIVAL PARIS

Asserting it will be the first city in the nation to plant trees in its entire central core area, the newly created Indianapolis downtown tree planting committee plans to make the Indiana city's downtown streets rival the landscaping of Paris boulevards.

Several civic associations have joined with the city administration in the planting project, which is ex-

other
s. For a
of plant
d; \$200
ould be
uses a
men as
details
in the

ge, was
on. He
ially in
rs and
equip-

division
will deal
and col-
rials for

w
sociates,
viewing
n show.
ndpoint,
e entire
e were
as last
e enthu-

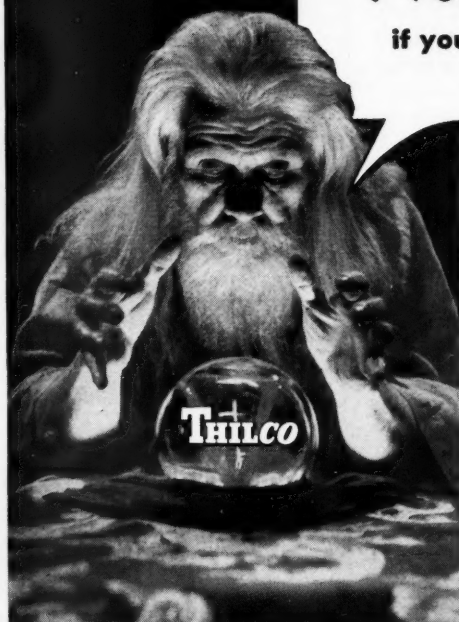
s were
ught to
rial and
crificing
artificial
thought
ayed. In
ne plant
would
d with
normal-
months

of opin-
ees and
and then
hibited.
men felt
ped ma-
sed. Be-
and be-
was lit-
bitors, it
material

PARIS

first city
es in its
e newly
own tree
to make
n streets
is boule-

ns have
istration
ch is ex-



**"I foresee safe protection...
if you wrap to ship with Thilco
Special NURSERY WRAPS"**

Truer words were never spoken — so why gamble on plant and shrub damage losses by using inferior wrappings when Thilco Special NURSERY WRAPS protect tender roots with safety and surety — are so easy to handle — and save so much in shipping costs over heavier, cumbersome methods. Poly-coated, Asphalted and Waxed grades now available in "small nursery" quantities — and can be furnished PRINT-DECORATED to your own desires for just a few cents more!

NURSERY WRAPS FOR EVERY WHOLESALE-RETAIL NEED

- POLYETHYLENE COATED KRAFTS
- WAXED AND WAX-TREATED KRAFTS
- ASPHALT LAMINATED KRAFTS
- DUPLEX COMBINATION WRAPPINGS
- STRONG, FLEXIBLE, CREPE COMBINATIONS
- VENTILATED, TIE-STRIP BULB BAGS
- POLY-COATED SEED PACKETS
- CUSTOM GRADES FOR EVERY NEED
- RETAIL SALE COUNTER ROLLS —
- PRINT DECORATING—ALL GRADES AND BAGS



WRITE FOR FREE NURSERY WRAP SAMPLE KIT

... Direct to mill or any of these sales offices

NEW YORK • CHICAGO • DETROIT • BOSTON • CLEVELAND • CINCINNATI • CHARLOTTE

Thilco

Functional Papers

THILMAY PULP & PAPER COMPANY
KAMUKUA, WISCONSIN

pected to begin in mid-May and be completed by the end of June, resulting in 233 permanent trees being planted along sidewalks of the monument circle and a 4-block commercial area.

The large, round 3x4-foot concrete pots in which the trees will be planted are being supplied by the city. The pots will be placed about 50 feet apart. Actual planting of the trees will be by the Pottenger Nursery & Landscape Co., on a contract which furnishes the trees at \$75 each and annual maintenance at \$35 each. Species of trees to be used are purple Norway maple, red maple, European linden, sweet gum and white ash, each tree lining a different street.

Inspiration for the systematic tree-planting project was furnished by voluntary permanent tree plantings by two downtown business firms. In research for the best method of achieving success in the program, a questionnaire was sent to 64 large cities and answered by 46, of which 21 had some trees and offered the benefit of their experiences. Those figures reveal the increasing interest taken in the improvement of commercial urban areas through the planting of desirable trees.

Small CRAWLER-TRACTOR INCREASES PROFITS!

- Backfills • Excavates • Grades
- Spreads • Drawbar 2000 Pounds
- Size: 41x84 in. • Lifts 7 ft. 3 in.



MEAD SPEEDCAT

- (1) Operates in tight places where other equipment cannot be used!
- (2) Delivers power and traction proportionate to larger crawlers!
- (3) Can be operated or loaded on a pickup truck or trailer by one man!

Write for Literature
or Demonstration

MEAD SPECIALTIES CO., 4114 N. Knox Ave., Dept. T-1240, Chicago 41, Ill.

Soil Conditioners

Types of Peat Described at Michigan Convention

KINDS AND USES OF PEAT

"Peat, Peat Moss, Peat Humus—What's the Difference?" was the title of an informative exposition by Dr. Robert Lucas, department of soil science, Michigan State University, at the Michigan convention.

The use of peat has been rapidly expanding during the past decade. Factors that have contributed to expanded sales of peat are need for soil improvement about the many new subdivision homes, decreasing availability of farm manure, dislike for manure odors, better understanding of how to handle peat and a greater appreciation of organic matter as a soil conditioner. Michigan has over 4,000,000 acres of organic soils. A sizable amount of this acreage can be used for peat processing, said Dr. Lucas.

The peat business is highly competitive, with a low net return, especially if the handling operations are not well organized. Anyone considering entering into the peat business should become familiar with federal trade commission rulings. This information can be obtained from the bureau of mines, United States Department of Interior.

Benefits from Peat

The addition of peat to mineral soil may bring about a number of desirable improvements:

1. Increases moisture-holding capacity of sandy soils.
2. Increases the rate of water infiltration.
3. Makes fine-textured soils more friable and better aerated.
4. Forms source of nitrogen fertilizer.
5. Increases the exchange capacity of the soil (buffering effect).
6. Increases the microbial activity.
7. Helps reduce the danger of soluble salt injury to plants.
8. Helps keep plant roots cool in the summer and warm in the winter, when used as a mulch.
9. Mulches help to prevent winter-killing of ornamentals resulting from lack of water. Peat moss gives better water-holding capacity.
10. Acid peat mulches help control weed growth.
11. Acid peat improves growth of azaleas, rhododendrons, etc., which have a high iron and ammonia-nitrogen requirement.

Practically all peat deposits in

Michigan are a mixture of wood, sedge, reed and moss. Moss peat is seldom processed in Michigan. Moss peat found in retail stores is usually imported from Canada or northern Europe. The term "peat humus" is used to describe organic soil that is fairly well decomposed. Muck soil is a term used to describe the texture of organic soils in which the plant remains have decomposed and are no longer identifiable.

Peats suitable for commercial uses are usually bog or marsh types, in which the remains are derived from reeds, sedges, moss or mixtures of the three. Raw peats, which are often too coarse for easy handling, may be allowed to weather in the sun and air for nearly a year. This weathering makes the peat firm and pliable and spongy to the touch.

If the purpose for using peat is to increase the organic matter content of the soil, most organic soils

are acceptable, provided they are high in organic matter. Decomposed woody mucks and sedimentary peats are to be avoided for soil aeration and moisture-holding capacities. Black compact peats have low moisture-absorbing properties and rewet with difficulty. Certain fine-leaved sphagnum-woody peats become waterlogged and shrink excessively.

Mulching Type

Peats used for surface mulches about plants should be coarse, unweathered and brown in color. They should conduct heat slowly, decrease surface evaporation and not cause excessive heating. Black peats tend to heat too rapidly. Finely ground peat is often preferred as a mulch for grasses in order to get an even application with spreader equipment.

Peats for potting purposes should have some standard characteristics so that the grower can estimate lime and fertilizer requirements. Black peats and mucks that have been heavily fertilized or are from saline areas or contain over 2 per cent nitrogen are not recommended. Up-

PLANT INSURANCE WITH PLANT SHIELD

A NEW, IMPROVED and ECONOMICAL plastic plant COATING which retards water transpiration during adverse conditions and until new growth begins. This minimizes losses and seasonal injuries. It also increases the effectiveness of insecticides by reducing rain wash-off.

PLANT SHIELD is a 100 per cent concentrate containing no filler or extender material. This gives greater coverage plus reduced costs, stronger more flexible film and greater ease in mixing and spraying. PLANT SHIELD also contains purified plant chlorophyllins as a conditioning agent plus a wetting agent to insure better coverage and reduce possible overdosage.

UNLIMITED USAGES FOR YEAR-ROUND SALES

Reduces normal transplanting losses in spring and fall. Reduces transplanting shock and wilting of flower and vegetable seedlings. Prolongs insecticide action. Enables summer and winter transplanting. Protects against summer heat and drought. Protects plants against wind and winter losses. Helps plants endure seashore conditions. Lusterizes plant foliage. Substitute for unsightly protective tree wrappings. Keeps salesyard plants fresher and minimizes watering.

PLANT SHIELD is a long-needed answer to hundreds of growing problems—for everybody from commercial farmers and nurserymen to landscape contractors and gardeners to retail consumers. Use it yourself, sell to bulk users and sell to retail consumers.

A BROAD MARKET + UNLIMITED USES + YEAR-ROUND SALES = PROFITS + VOLUME
— An Unbeatable Formula —

GAR-PROD Inc., QUEENS AVE., LINDENHURST, N.Y.

HANDY PEONY SUPPORT



Two Models . . .
531E—31 ins. high
One 14-in. loop

533E—33 ins. high
Two 14-in. loops

Green Enamel Finish

Send for folder today.

LANSING SPECIALTIES MFG. CO.

Dept. A420

918 Clark Rd., Lansing 17, Mich.

Flower Grower,

The Home Garden Magazine, is bought, read and loved by 400,000 families in suburbs and small towns.

John R. Whiting, Publisher

Robert G. Miner, Advertising Director

One Park Ave.

New York 16, N. Y.

Mr. Grower, prove this statement for yourself:

COSTS ARE LOWER-PROFITS HIGHER-

WITH RITTER-WILSON Plant Pots

● It's this simple—your costs are lower, profits higher because Ritter-Wilson Plant Pots weigh less, are more durable, more compact, more saleable. Convert some of your 'packaging' outgo to profit income now... switch to Ritter-Wilson Plastic Plant Pots.

For a free sample of each Ritter-Wilson pot, tub, bantam flat and saucer, simply write your request on your business letterhead.



RITTER-WILSON INC.

HOME OFFICE
P. O. BOX 8216 • ORLANDO, FLA.
P. O. BOX 2037 • SANDUSKY, OHIO

New from RITTER-WILSON: Round 7" and 5", Square 2 1/2", Pots-3", 4", 5", and 6" saucers.

on heat sterilization of the soil, they may release excess salts or toxic quantities of ammonia or manganese.

Bog peats and moss peats are usually very acid and are preferred for plants such as azaleas, blueberries and rhododendrons. The pH should have a value between 4.5 and 6.2. Peats with a pH below 4.5 usually need liming. Peats with a value greater than pH 6.2 are suitable, providing they are not used for plants that are sensitive to trace element deficiencies.

The value of peat depends on a number of variable factors. The buyer is particularly interested in the amount of organic matter. Moss peat absorbs and retains liquid more completely than other types. Good commercial peat is usually fibrous or spongy in texture, free of wood, low in weed seed count and has been shredded and screened. When evaluating peat material, the buyer usually wants to know the kind of peat, pH (acidity), per cent organic matter and per cent moisture. Moisture content should be below 55 per cent. Packaged peat is usually sold by weight. Bulk or baled peat is usually sold on the basis of volume, such as cubic feet or yards. Volume measures partly correct for differences in moisture, but this does not

BOOKS on PROPAGATION

Plant Propagation Practices, by James S. Wells. Information on water, heat, light requirements, shading, methods of handling seeds and cuttings. Directions for grafting, layering and division, control of pests and diseases and preparation of propagated material for field planting. Detailed procedures for a select group of plants. 344 p., illus. (1955).....\$7.50

Plant Propagation, by Mahlstede and Haber. Basic principles, including details of practice. New techniques of propagation, producing hybrids and seed production. Covers propagation of specific plants, propagating structures and mist propagation and its control. 413 p., 188 illus. (1957).....\$7.50

How to Increase Plants, by A. C. Hottes. Tells how to multiply plants by the most suitable method of propagation. Discusses seeds, cuttings, bulbs, grafting, fruit stocks, annuals, perennials, conifers, orchids, ferns, roses, trees and shrubs. 279 p., 128 illus. (1949).....\$3.50

The Grafters' Handbook, by R. J. Garner. Explains various types of grafting in detail and the methods described. Includes seedling and propagation of rootstocks, handling of scion wood, choice and use of tools, tree raising in nurseries and grafting established trees. 117 diagrams, 42 plates. Revised edition, 280 p. (1958).....\$5.75

Propagation of Plants, by Kains and McQuesten. For propagators in greenhouse and nursery. It includes seed testing, layerage, division, separation, rooting cuttings by growth-stimulating substances, greenhouse fumigation, grafting, budding, stock and scion handling, nursery management and pest control. 375 illus. 637 p. (1942).....\$6.95

Plant Breeding for Everyone, by John Y. Beatty. How to find and develop new plant varieties. Covers testing, naming, introducing and patenting new varieties and the technique of hybridization. 102 p., illus. (1954).....\$2.75

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.

BALED SHINGLE TOW

(CEDAR SHAVINGS)

WM. A. JOHNSTON

1522 N. W. Thurman St. PORTLAND 9, ORE.

PERFECTION MARKERS ARE BETTER



for Park Trees, Display Gardens, Field use or Greenhouse Pots or Benches. Proven by thousands of users and every one a booster! You'll like them, too. They will stand for years at one marking, or may be changed any number of times for various markings. Send for catalog and prices of the complete PERFECTION LINE.

The S-W Supply Co., D. 33, Girard, Kan.

This Nursery Model FITCHBURG CHIPPER Eliminates Brush Hauling



Makes Low Cost Mulch

The next time you haul or burn prunings, remember a Fitchburg Chipper will quickly chip your prunings to eliminate hauling... provide plants and shrubs with a protective moisture cover to guard against summer dry spells, or protect your evergreens from winter drying.

The nursery size Fitchburg Chipper is inexpensive. Yet it converts nursery prunings, waste wood, into a long-lasting, moisture-holding mulch that stays put, won't burn or blow away. It lasts year after year and gradually breaks down into humus.

Model C5 is widely used by orchardists and nurserymen. This model is operated by means of the tractor power take-off. A Fitchburg Chipper gives you "on the spot" convenience on most wheel-type tractors.

The patented spring-activated feed plate, a Fitchburg exclusive, completes the safe, single operator chipping equipment. Each limb is held tightly against a cutting head. With the spring-activated feed plate, you chip brush in various sizes up to its rated capacity with equal effectiveness. There is less shock to the cutting edges, the tough, chrome steel knives stay sharp longer. Chipping goes faster.

FREE CHIPPER FACTS

Write Fitchburg today for free Chipper Facts. Know how a Fitchburg Chipper can save you man-hours and give you low-cost mulch, besides. Tell us how many acres and the type of nursery stock you have, and we will send you the proper literature and prices on models best adapted for your work. The coupon is for your convenience.



**FITCHBURG ENGINEERING
CORPORATION**
Fitchburg, Mass.
Dept. AN-64

PLEASE SEND facts about Fitchburg Chippers suitable for nurserymen—also prices. We have _____ acres of _____ nursery stock to prune.

We have a _____ Tractor.

Name of Nursery _____

Name of Individual _____

Address _____

Town or City _____ State _____

correct shrinkage upon drying. It is not practical to dry peat excessively, as this increases cost. Furthermore, certain peats should not be too dry, as they are difficult to rewet.

Additional information that might be needed regarding peat is the texture, degree of decomposition, color, moisture-holding capacity and nitrogen content.

Texture describes whether the organic soil is peat or muck. Structure and consistency terms, such as fibrous, felty, pulpy, granular, spongy or pitchy, help describe physical properties.

Usage

Peat may be used in building new lawns at the rate of one-half cubic yard, or one bale, for each 1,000 square feet. This is then worked in to a depth of six inches. Peats by themselves on the surface are not suitable, because the turf could easily tear. The pH should be between 4.8 and 7.0. Peat below 4.8 can be used if the mineral soil is nearly neutral or alkaline in reaction.

Certain plants, such as azaleas and rhododendrons, require acid soils for proper growth. Because the soil around buildings often contains lime particles, it is advisable to use acid-forming materials, such as peat, in the production of such plants.

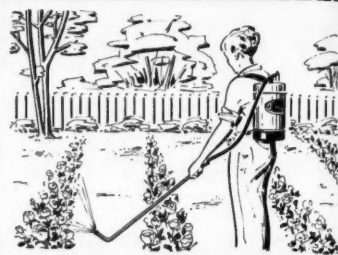
Peat is used in many potting mixtures. For roses and other flowers, two parts of loam soil, one part of peat and one part of sand is an acceptable mix. To one bushel of the soil mixture is added one-quarter pound of fertilizer, containing by weight one part of ammonium sulphate, two parts of 20 per cent superphosphate and one part of potassium sulphate.

In recent years there has been much interest in the use of peat and sand mixtures for container-grown plants, as outlined by the University of California specialists. Growers who may want to use the California mixture can obtain a copy of the bulletin, "The U. C. System for Producing Healthy Container-Grown Plants," manual 23, from 22 Giannini Hall, University of California, Berkeley 4, Calif.

Information on the chemical-physical properties of peat can be found in special Michigan State University bulletin 425.

USE OF WOOD CHIPS

H. L. Jacobs, Davey Tree Expert Co., Kent, O., began his talk at the Michigan convention by showing slides of the uses of wood chips. Some cities use them mixed with soil



Now... the compact CHALLENGER ...CHAMPION'S new economy sprayer for the home garden



Long famous for piston-type knapsack sprayers, Champion now presents the Challenger—the compact, lightweight, easy-to-use, economy sprayer, especially suited to women gardeners. Its lower spraying pressure is easily pumped as needed; on each stroke of the operating lever, solution at well bottom is agitated to guard against precipitation and clogging. Sprays a pint to 3½ gals. on one filling. Extension with 48-inch hose reaches under leaves

of low plants. Form-fitting shield held by adjustable straps fits the back comfortably.

Write now for full details of the Challenger

CHAMPION SPRAYER CO.

Mr. Portable Sprayers and Dusters

6507 HEINTZ AVE. DETROIT 11, MICH.



**FINEST QUALITY - PROMPT SERVICE
LABELS PRINTED TO ORDER**

Write for samples, prices and discounts.

THE BENJAMIN CHASE CO.
DERRY VILLAGE, N. H.

**Utility Tubs • Redwood Tubs
Bamboo Canes
Plants • Seeds • Bulbs
Hy-Lo Heaters**

General Greenhouse Supplies

Eastern Distributor
AL SAFFER & CO., INC.
130 W. 28th St., New York 1, N. Y.



**FLORISTS' TEXTILES
PLASTICS**

X. S. SMITH, INC.

Box 272 Red Bank, N. J.

and fertilizer for heeling-in beds, and some are dumped as waste. Pittsburgh uses large amounts of chips as fill, and in Akron, O., no chips are allowed to be used in the city, due to fire laws.

The Davey Tree Expert Co. uses chips for erosion control on rough, bare ground and puts them on seven inches thick. They have been used in euonymus vine planting and put on six to seven inches thick on steep banks. A mulch of chips will control weeds. Chips are used for heeling-in beds 18 to 24 inches deep for trees, with a small quantity of soil to get them started. They are used two inches deep in heeling-in beds for B&B trees which stay two or three years. A fertilizer with a high nitrogen content is supplied from time to time as required. Care must be taken to keep the beds cool, as green chips will heat during the process of decomposition. The speaker showed slides of good root growth occurring in chips.

NOTEWORTHY TREES

[Continued from page 17]

training or pruning. Dark green, heavy, leather-textured foliage; fast-growing; tolerates a variety of soils and exposure conditions.

Ulmus carpinifolia Christine Buisman, Christine Buisman elm—First plantings received in 1947 have attained a height of approximately 20 feet and a 6-inch caliper. They have established exceedingly well, adapting to rather dry, sandy loam soil and open exposure. Some plantings in lowlands, where perhaps the drainage is not too good, failed to survive. This is a well-formed, well-shaped tree, a seedling of the common European field elm introduced into this country in 1938. It is highly resistant to Dutch elm disease, suffers a minimum of phloem necrosis.

Cercidiphyllum japonicum, Katsura tree—A desirable tree and one of the best introductions from Japan. Although in its native habitat it attains a height of 100 feet, that is rare here; 30 feet is oftener the case. The gardens' largest specimen is approximately 35 feet tall, with a 22-foot spread; it is 31 years old. The Katsura is a slow-growing tree, inclined to be shrubby for some years. With age it develops into a rather dense pyramidal form, usually divided from the base into several trunks and spreading in habit. The leaves are attractive at all times, coppery when unfolding and purplish red or yellow in autumn. The trees are either male or female, but not both. It appears that the female

Wisconsin-powered Friday self-propelled power hoe enables one man to cover an acre in 2 hours. Cultivates, weeds, hoes. Powered by a 9 hp. single cylinder Wisconsin Engine.

Friday turbine-blast straw spreader, powered by 2-cylinder 18-hp. Wisconsin Engine, mulches more than an acre an hour. Made by Friday Tractor Co., Hartford, Michigan.



You are way ahead with WISCONSIN-POWERED equipment

Whether it's a case of turbine-blast straw spreading, power-hoe cultivation of row crops, spraying, dusting, or pruning...you're way ahead when you use Wisconsin-powered self-propelled equipment.

You save precious man-hours and costly manpower. *One man* outworks a crew using other methods. You speed up field work, cover more ground, keep ahead of the weather. You can handle more acreage with less labor and produce more at lower cost.

If the job calls for power equipment, take a tip from mechanization-minded farmers — *let a Wisconsin heavy-duty air-cooled Engine handle the heavy work!* These rugged engines are always

ready to go in any season, operating efficiently at temperatures from sub-zero to 140° F. Heavy-duty design and construction provides the built-in stamina that stands up to the toughest field work. Load-lugging high-torque performance keeps the engine rolling and the equipment moving through sudden shock loads and heavy going.

There's a "Wisconsin" of the right size (3 to 56 hp.) to fit practically all types of equipment. Electric starting available on all models. Specify "Wisconsin Power" for your equipment. Write for name of our nearest Wisconsin Authorized Service Station and ask for free copy of Engine Bulletin S-249. Address: Dept. F-120.



WISCONSIN MOTOR CORPORATION

MILWAUKEE 46, WISCONSIN

World's Largest Builders of Heavy-Duty Air-Cooled Engines

**LOW COST
GREENHOUSES**

ALUMINUM • PLASTIC • WOOD

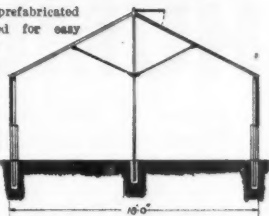
CLEAR SPAN

ANY STYLE
ANY TYPE

Rough Brothers

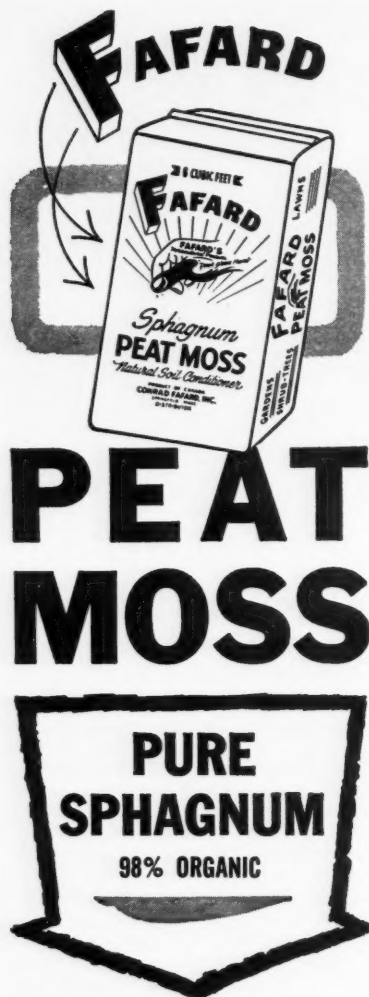
NEW LOW PRICES on Rough Brothers Cincy Economy Greenhouses

All materials are prefabricated and details furnished for easy erection. Write for complete information on Rough Brothers' complete line of truss houses . . . open span . . . aluminum or wood. Standard sizes 18 ft., 21 ft. 6 ins., 25 ft.



4229 Spring Grove Ave. Cincinnati 23, Ohio

Please Mention AMERICAN NURSERYMAN When Writing Advertisers.



*From the great Fafard
Bogs in Canada.*

**Handsomely Packaged
with Polyethelene Coating.**

**1 peck bags to 7 cu. ft. bales.
Also German peat moss in
7.5 cu. ft. bales.**

PEAT HUMUS

**Priced to produce traffic.
Plastic-lined bags 2½ lb. to
100 lb. as well as in bulk.**

CONRAD FAFARD, INC.
P.O. Box 774, LOcust 7-3316
Springfield, Mass.

form is the handsomer, being more spreading; the male form is quite columnar. It is important that transplanting be done only when the tree is perfectly dormant.

Quercus robur fastigiata, pyramidal English oak—Popular form of English oak. Its columnar habit is similar to that of the Lombardy poplar. The trunk is thick, with a deeply furrowed bark. Specimens planted at the gardens in 1949 are presently 12 feet tall, with 3-inch caliper. Shows promise particularly in confined areas and could well be an excellent accent plant.

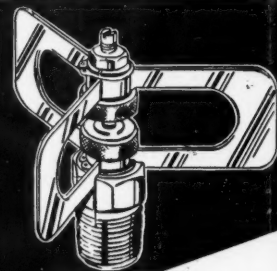
Quercus palustris, pin oak—A moderately fast-growing, pleasingly shaped tree, valued as a specimen where it can be given plenty of room to develop naturally, or for screening purposes. It is shallow rooted and thrives best in moist lowlands. It retains its leaves late into winter and has excellent fall coloration. It is sometimes hard to grow in locations where the soil is alkaline. Shows promise and bears watching.

Crataegus prunifolia, plum-leaved hawthorn—An outstanding hawthorn that should be used more, like many of our other hawthorns. Grown at the gardens since 1939, trees have attained a height of approximately 20 feet, having somewhat ascending, spreading branches. Retains its attractive fruit into winter and has outstanding hollylike foliage. Really an impressive tree and perfectly hardy.

Fagus sylvatica zlatia, copper beech, and other forms varying in the color of the leaves—A large, most desirable shade tree and one of the best ornamental trees. Dense habit of growth, retains foliage far into winter; attractive gray bark and comparatively slow growing. Most graceful habit of growth; attains a maximum height of 90 feet.

Syringa amurensis japonica, Japanese tree lilac—Hardy lilac of particular value because of its late bloom and because it can be grown with a single trunk, developing at maturity to a maximum height of 30 feet. Its habit is pyramidal and rather open; the leaves are larger than the common lilac and almost coarse. The shiny cherrylike bark is interesting in winter, and the large leaves and vigorous habit are striking in spring and summer. Useful as a specimen or in a group as screen or windbreak. Will take drought and all other types of weather conditions. Handsome, large, creamy-white flowers appearing in mid-June.

Malus Elise Rathke (M. pumila pendula)—A weeping-type crab apple with white flowers and green



Fog-mist NOZZLE

for Propagation and Humidity Control

**LONGER LIFE
PRECISE PERFORMANCE
BEST NOZZLE ANYWHERE**

- Stainless Steel Orifice Insert
- Stainless Steel Target Screw
- Monel Metal Cylindrical Screen
- Phosphor Bronze Alignment Brackets

No.	Orifice Size	At 20-lb. pressure Diameter G.P.M.
550-A	0.28 in.	5 ft. .1

\$2.95 each. One dozen, \$23.60 each. Postpaid with check or money order. Guaranteed. 3% tax in Florida.

SPRAYERS & NOZZLES

2575 28th Ave., No. ST. PETERSBURG 4, FLA.

PROFIT with

"OK" GRASS TRIMMERS

You can boost your profits by selling "OK" GRASS TRIMMERS • This is what we offer you!

- LARGER DISCOUNTS • QUICK TURNOVER
- COMPLETE CUSTOMER SATISFACTION
- BETTER BUILT TRIMMERS
- THE OLDEST MFG. IN THE FIELD
- NATIONAL ADVERTISING

**The First
TRIMMER
EDGER
BOTH-IN-ONE
TOOL**



TRIMS . . . all the grass away from fences, walls, trees, rocks.
EDGES . . . cuts a neat, trim groove between walk and sod.

J. A. ORR CO. DGT 401
10019 SO. WESTERN AVE., CHICAGO 43, ILL.
Please Rush Complete Facts.

Name _____
Address _____
City _____ State _____

Garden sales for the FOUR seasons...

AGRICO® FERTILIZERS

FOR EVERY YEAR-ROUND GARDEN NEED!

AGRICO for LAWNS, TREES & SHRUBS
Sells spring, summer and fall—the popular priced quality lawn food.



AGRICO for TURF with UREAFORM
Sells spring and fall—the premium slow-release lawn food.




AGRICO for GARDENS
Sells spring, summer and fall—for starting and maintaining flowers and vegetables.



AGRICO WATER SOLUBLE PLANT FOOD
Sells 12 months of the year—new, quick and easy way to feed all house plants and gardens.



AGRICO for AZALEAS, CAMELLIAS, RHODODENDRONS
Sells in spring—especially formulated for broadleaf evergreens and all acid-loving plants.



AGRICO ROSE FOOD
Sells spring, summer and fall—applied every month during the blooming season.



AGRICO PESTICIDE and TURF FOOD
Sells spring and fall—stops insects, grubs and worms as it feeds lawns.



AGRINITE 100% Organic Nitrogen Fertilizer
Sells spring, summer and fall—keeps lawns green in summer, revives browned lawns. recommended for late fall feeding, too.



THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York 7, N. Y.

40 Factories & Sales Offices in U. S., Canada & Cuba

fruit. Unusual and will always attract attention; 22-year-old specimens have attained a height of 17 feet and width of 19 feet. Oriental appearance.

Malus Bob White—Pink buds followed by white single flowers; has bittersweet-colored fruit which it retains far into March. A vigorous grower, with a dense, rounded head. One of the outstanding varieties in the gardens' collection. Plants 6 years of age have attained a height of nine and one-half feet and spread of 15 feet. Annual bearer.

Malus Katherine — A vigorous and prolific-blooming variety, year in and year out. Has a somewhat vase-shaped top. Pink and white double flowers (about 20 petals). Retains its abundant yellowish fruit for a long period. Plants 10 years of age have reached a height of 12 feet and spread of 10 feet.

Malus brevipes, Nippon crab apple—Semidwarf habit, exceptionally floriferous. Trees 9 years of age have reached a height of eight feet and are 15 feet wide. Bears an abundance of attractive red fruit, holding it in a colorful state at least through December. Attractive habit, with low, spreading, rounded top.

Malus baccata columnaris, columnar Siberian crab apple—A unique

SOIL WETTING AGENT

AQUA-GRO®

AQUA-GRO

is a blend of non-ionic organic wetting agents formulated to wet any soil mix quickly and uniformly. Grow a portion of your stock under low soil moisture tensions. No dry pots. No overwet pots. Promote better rooted, denser and more uniform, healthy plants with low soil moisture tensions.

AQUA-GRO

mixes readily with water and can be applied to your container stock with conventional equipment. A minimum of two treatments a year is required. Fast, uniform wetting saves you time and money and conserves water. GARDEN CENTERS keep your retail canned and balled stock fresh with Aqua-Gro.

AQUA-GRO

produces better plants in propagating; reduces transplanting shock; aids in faster, more uniform seed germination and rooting; reduces sediment removal and washing of seed; makes your fertilizer program more effective; reduces winter burn on stock treated during propagation and planting out.

One Cent
Treats 25
1-gal.
Containers
Twice a Year

1 gal., \$15.00
5 gal., \$60.00

Also Available
in 15 gal. and
52 gal.

**AQUATROLS CORP.
OF AMERICA**

217 Atlantic Ave.
Camden, N. J.

IT'S THE MOST COAST TO COAST

The *genuine*
REDHEAD CAN SHEAR



"Saves" the most.
"Lasts" the most.
"Hurries" the most.
Cuts the most cans,
in the most nurs-
eries, everywhere!
By June, '59, al-
most 30,000 Red-
heads were cutting
millions of cans off
plants every month.

DO YOU HAVE THIS LABORSAVER?

It pays to cut every can before it leaves your nursery. Customers can't be trusted to knock out a plant without breaking top or root ball!
Price: 1 or 2, each, \$7.00; 3 for \$18.75, plus postage. (Package weight, 1 unit, 5 lbs.)

The *original* **HANDY-MAN GRIPZIT**



Grips one can or two. Holds on like a bulldog, yet lets go at once when you set plants down. Picks any canned plant out of a jam-packed block of cans. Saves hours when loading trucks, yard dollies or just relocating display plants.

DO YOU HAVE THIS LABORSAVER?

Price: 1 only, \$3.20; 2 to 5 units, each, \$2.90, plus postage. (Package weight, each 2/3 lb.)

NOTE . . .

Both these tools have been copied—in appearance. We cannot accept these copies for repair under our guarantee. Insist on seeing this label



From Maine south through Virginia, west through Pennsylvania and West Virginia, write A. H. GUTBROD CO., Box 96, Irvington, N. J.
From North and South Carolina, Georgia, Alabama and Florida, write COLUMBIA NURSERY SUPPLY CO., Box 5068, Columbia, S. C.
From Illinois, Indiana, Ohio, Kentucky and Tennessee, write A. M. LEONARD & SON, Piqua, Ohio.
From Kansas, Missouri, Oklahoma, Arkansas, Louisiana, Mississippi and Texas, write VERHALEN NURSERY CO., 12140 Harry Hines Blvd., Dallas, Tex.

From Unnamed States Write to:

Ayer-Line INDUSTRIES, INC.
709 Jones St. BERKELEY 10, CALIF.

form, one of the few columnar crab apples; can well be used in place of the Lombardy poplar. Its flowering as well as its fruiting habit has been somewhat spotty, but it is vigorous and always attracts attention. Trees 10 years of age have attained a height of 20 feet and a width of four and one-half feet. Annual bearer.

Malus purpurea lemoinei, Lemoine crab apple—A real stopper in bloom with its dark red flowers; also valued for its bright red fruit carried, however, only until mid-October. Trees 22 years of age have attained a height of 17 feet and width of 30 feet. Spreading and rounded habit of growth.

Malus Flame—Outstanding for flowers and fruit. Plants 19 years of age have attained a height of 12 feet and spread of seven feet. Has a neat, upright habit. Alternate bearer.

Malus Almey—Notable for its beautiful brilliant flowers and fruits. Annual bearer. Excellent habit of growth. Plants 11 years of age have attained a height of 13 feet and spread of 22 feet. Wide, open habit.

Malus sargentii, Sargent crab apple—Its unique form has made this species of major interest here in the annual garden. A most useful crab apple. Plants 20 years of age are only eight feet high, with a spread of about 14 feet. Very low and spreading habit. Completely covered with small fruits through December. Alternate bearer.

Malus prunifolia rinki, Chinese pear-leaved crab apple—Upright, stately tree with rounded top. Good as specimen. Trees here at the age of 22 years are 28 feet tall and 12 feet wide; alternate bearer.

Malus Makamik—A small tree of neat habit, rounded head, short trunk, purplish-bronze foliage, large purple to pink flowers with decorative bright red fruit; annual bearer.

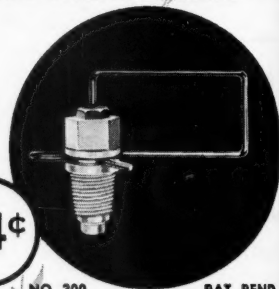
Malus purpurea eleyi, Eley crab apple—Trees 22 years of age have attained a height of 14 feet and spread of 28 feet. Low, spreading habit, gnarled and twisted branching effect. Outstanding purplish-red flowers and reddish-pink fruit.

Shrubs

Cotoneaster multiflora—An outstanding shrub with a central trunk, requiring plenty of room. If given room to develop, it is a graceful shrub with arching, slender branches. Valued also for its white flowers and scarlet fruits. Excellent all-around characteristics. Thrives in any good soil conditions, but dislikes moist and shady locations. Specimens planted

Flora-MIST FOGGER

A PRACTICAL, ECONOMICAL WAY TO PROVIDE MOISTURE FOR PROPAGATION AND HUMIDITY CONTROL



54¢

NO. 300

PAT. PEND.

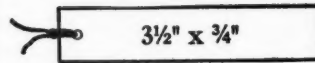
Simple in design
Made of Nylon with Metal
Jet and Wire Baffle
Little or no maintenance required
Field-Tested for effectiveness
Priced for extensive use and
VOLUME SELLING!
For FREE Sample
and complete information
Write To

REED S. KOFFORD CO.

P. O. BOX 453 P
VAN NUYS, CALIFORNIA

ALUMINUM TAGS

(All-weather)



- Patented cardboard backing permits easy embossing with ordinary lead pencil.
- Heavy eyelet. Copper-wired.
- Attractive silver Aluminum, backed with yellow cardboard.
- Inexpensively priced:
1000 for ... \$16.00 250 for ... \$6.00
500 for ... 10.00 100 for ... 3.00

Please Write for Free Samples

BERRYHILL NURSERY CO.
P. O. Box 696 Springfield, Ohio



KILLS WEEDS

R-H Granular
Weed Rhap-20

Kills Lawn Weeds
Water Weeds
Cornfield Weeds

Ready-to-Use!
Dealers Wanted

REASOR-HILL CORPORATION
Box 36 AN, Jacksonville, Ark.

by the gardens in 1942 are now 10 feet tall and as wide.

Lonicera claveyi nana, Clavey's dwarf honeysuckle—Globular shape when grown as a specimen. One of the fastest pieces of hedge material that we have had the opportunity to work with. Branches right at the ground. Green foliage with a bluish-gray cast. A landscape plant of great merit.

Spiraea multiflora (snowgarland)—Masses of white blooms and lacy, light green leaves. Outstanding for its bushy, compact, low-growing habit and prolific blooms.

Rhus canadensis, Fragrant sumac—Two types, upright and spreading. Excellent barrier characteristics; branching habit right down to ground level. Pleasing foliage and fruit. An ideal shrub for facing taller shrubs.

Salix purpurea nana, Arctic willow—A charming low-growing willow especially suited for hedges or facing of taller shrubs. Adapts itself to wet or heavy soils; of easy culture; attractive gray-blue-green foliage. Can be used for formal as well as natural effects.

Evergreens

Pinus cembra, Swiss stone pine—Upright habit of growth, narrow, dense and pyramidal; exceptionally slow growing, specimens planted in 1939 are now only 14 feet high, and seven feet in diameter. Suitable for formal planting; very hardy.

Pinus parviflora, Japanese white pine—An excellent ornamental pine, wide-spreading habit, requiring plenty of room for expansion. Attains less than half the height of the native white pine.

Pinus sylvestris watereri, Waterer scotch pine—Low, dense form with steel-blue needles. Specimens planted at the gardens in 1939 are now only 15 feet tall, 12 feet wide.

Pinus peuce, Macedonian pine—Short, ascending branches, dense habit and slow growth. Specimens planted in 1939 are now 25 feet high, 10 feet wide.

Pinus omorika, Serbian spruce—Desirable spruce of slow growth, forming a dense, narrow pyramidal tree. Specimens planted in 1939 are now 20 feet high and 11 feet wide.

Picea abies maxwelli, Maxwell spruce—A low, compact tree with dark green foliage of slow growth; specimens planted in 1939 are now only about 40 inches high, with a spread of 62 inches; unique.

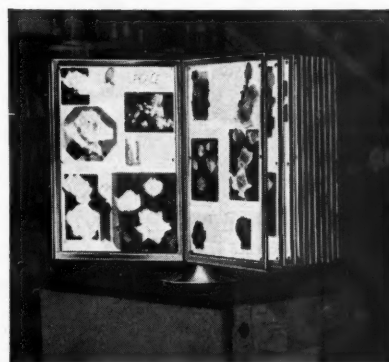
Vines and Ground Covers

Hedera helix Thorndale, Thorn-dale subzero English ivy—A unique



Here are
3 types of
MULTIPLEX
DISPLAYS
to increase
your sales

How can Multiplex help you increase your sales? **Here's how:** Make a collection of the most colorful, attractive literature that you receive from growers; tack this material up on the wings of a Multiplex; locate your Multiplex unit up front and watch how this eye-catching display attracts attention. Customers can see at a glance just how these shrubs and blooming plants will look around their own homes . . . and this stimulates a buying mood. Multiplex is available in floor models, wall models and counter-top models—all reasonably priced. Mail the coupon for complete information.



Show it well and it will sell

MULTIPLEX

Multiplex Display Fixture Co.
915-925 N. 10th St., ST. LOUIS 1, MO.
Please send complete catalog on display equipment for nurserymen.

Name
Company
Address
City & State **AP60**

Please Mention **AMERICAN NURSERYMAN** When Writing Advertisers.

IF YOU NEED SHADE

LOW COST **YOU NEED** NURSERIES
COOL VENTED GREENHOUSES

ALUMALATH

AWNINGS **WRITE FOR SAMPLE** **PATIOS**

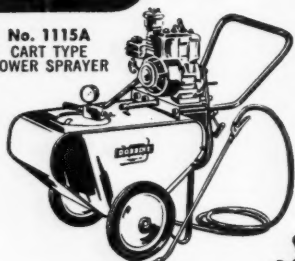
CAR PORTS **ALUMALATH** **DOG KENNELS**

BOX A555 SUNSET BEACH, CALIF.

DOBBINS SPRAYERS and DUSTERS

are MADE BETTER TO SPRAY BETTER TO SELL BETTER

No. 1115A
CART TYPE
POWER SPRAYER



No. 145A
COMPRESSED
AIR
SPRAYER



No. 31G
HAND
SPRAYER



No. 132
HAND
DUSTER

Built for Nurserymen... to USE and to SELL!

Right now is the time to equip for spraying and dusting this summer.

DOBBINS offers you a complete line of hand sprayers, dusters and power sprayers with quality features and dependability acquired from years of manufacturing experience.

Whether your needs call for hand or power equipment... specify DOBBINS and be sure of the BEST.

All DOBBINS products are fully guaranteed against defects in material and workmanship.

Desirable openings for distributors and representatives.

**WRITE TODAY for
FREE Catalog
and price information**



DOBBINS DIVISION, Chamberlain Corp., Waterloo, Iowa

PREVENT TRANSPLANTING LOSSES

of DECIDUOUS TREES and SHRUBS • CONIFERS, LINERS

- BROADLEAF EVERGREENS
- HERBACEOUS PLANTS
- PROPAGATING MATERIAL

PLANT ALL YEAR WITH PROTECTION WITH

WILT-PRUF

All sizes and varieties of plant material — from 40 ft. Pin Oaks to small vegetable seedlings — have been transplanted successfully (even in hot, arid weather) when sprayed with WILT-PRUF.

Plant your design any time. WILT-PRUF protects under every kind of weather. WILT-PRUF, proven through years of use, is also the best pesticide sticker.

Available in professional and homeowner sizes.



NURSERY SPECIALTY PRODUCTS, INC. STEBBINS ROAD CROTON FALLS, N.Y.

For Bark Wounds —

NU BARK

Your customers will like it!

CLEAN • CONVENIENT • EFFECTIVE

Your firm name printed on labels. Exclusive sale in your area. Send \$2.00 for a "show me" order. It'll be generous and postpaid.

NU BARK

20 W. Johnson St.
Charleston, Ill.

NEW

AREA and DEPTH TABLE

Enclosed in weather-resistant plastic.

Now you can tell at a glance the number of cubic yards in a square-foot area at a required depth.

Eliminate errors in estimating.

Ask for Chart 101. Price, \$2.50.

Cash with order, please.

PROGRESSIVE CHARTS

1105 W. Plainfield Rd.
La Grange, Ill.

vine and ground cover of unusual vigor, having done exceptionally well at the gardens under all exposures. We have been growing this ivy for the past 10 years. On the south side of the building it has come through each winter well; the greatest amount of freeze back occurred last winter, when the top growth was killed back about three feet. Recovery was quick and complete.

Euonymus fortunei coloratus, purple-leaved wintercreeper — As a ground cover, this plant has adapted itself exceptionally well to all exposures and soil conditions. It is a rugged, vigorous species, with climbing tendencies, requiring no winter covering.

Ajuga reptans, carpet bugle — A ground cover adapted to all exposures; forms a dense ground-hugging mat and runs freely when given ample space. Requires a light winter cover of marsh hay. Purple flowers.

Rodent Control

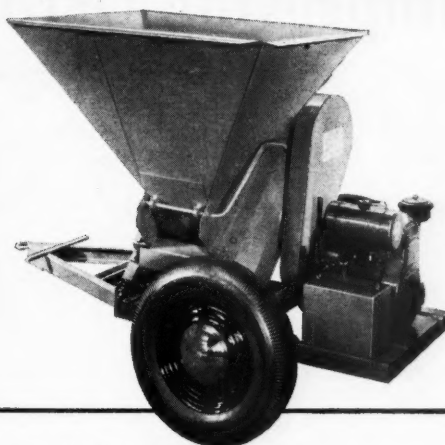
In a large area with a variety of conditions, rodents have been somewhat a problem, particularly rabbits. We have attempted to use many commercial items on the market. Last year we used a combination of powdered resin and denatured alcohol, which proved effective in the control of rabbits. A mixture of four to five pounds of powdered resin dissolved in one gallon of alcohol, so that it becomes a thin paint, is painted on the bark from the ground up to somewhere above the snow line. This is applied with a paintbrush when the temperature is not lower than 40 degrees — on or about October 1.

COLE UNIT GROWING

Development of an 800-acre farm near Circleville, O., purchased three years ago by the Cole Nursery Co., Painesville, O., is proceeding at a rapid pace. Robert B. Cole, manager of the Circleville operation, reports that approximately 100 acres of the property have been planted to nursery stock each year since it was acquired. Finished stock from the earlier plantings is already being shipped, and the nursery is expected to reach full production in 1961.

According to Mr. Cole, who was quoted in an article appearing recently in the Chillicothe Gazette, the large-scale planting has been accompanied by improvement of facilities at the new growing grounds. A well was developed on the property to feed an irrigation system that now services 250 of the 300 acres so far planted. An 80x180-foot concrete block warehouse constructed recently

THERE'S MORE TO SHREDDING THAN SHREDDING



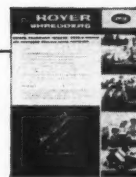
A compost or soil shredder must do more than just shred. For the best plant growth, material must also be blended, mixed and aerated. Lumps should be broken. Sticks, stones and foreign material should be removed. Air space must be provided.

No shredder will do these things as well, or as economical, as a Royer. No manufacturer offers the wide range of sizes and models as Royer.

There's a Royer that's "just right" for your operation. And when you're comparing shredders, remember, it's performance that counts.

Royer Shredder Model 16, with Batch Hopper. Capacity, up to 20 cu./yds./hr.

Bulletin S-59 pictures and describes 24 Royer Shredders—portable and stationary—designed for mechanical feeding. It will help you choose the model best suited to your needs. Send for your free copy today.



ROYER

ROYER FOUNDRY & MACHINE CO.

(182 PRINGLE STREET / KINGSTON, PENNA.

ly includes a refrigerated storage area of 70x80 feet where plants are held in dormancy until the proper planting time.

Purchase of the additional acreage in 1957 coincided with the 75th anniversary of the Cole Nursery Co., begun on a 15-acre tract by Robert Cole's grandfather, W. B. Cole. Started with a stock of blueberries, the nursery was developed into a large retail operation handling a full line of general nursery stock.

After 1950, however, all retail lines were discontinued to allow concentration on wholesale production of low-maintenance trees and shrubs, including the firm's patented honey locusts. This specialization is mirrored in the plantings at the Circleville nursery, 50 per cent of which are shade trees; 40 per cent, shrubs, vines and ground covers, and 10 per cent, evergreens.

The nursery employs 40 persons on a year-round basis—up to 75 at peak seasons—and is at present larger than the parent operation at Painesville, O. Mr. Cole's father, D. B. Cole, is president and general manager of the firm.

DUBINA'S ORCHARD was recently started by Harry Dubina, R. No. 2, Albion, Mich.

BRODLEAF

Imported Holland

PEAT MOSS



Roots screened out

You get the best part—the Peat Flakes!

OUTDOOR BAMBOO
BLACK AND CLEAR
POLYETHYLENE

HOLLAND BURLAP
SQUARES - 4 Grades

- Boskoop
- Standard
- ROT-NOT
- VIKING WRAPS

HALF

MOON

MFG. & TRADING CO.

90 West St., New York 6, N. Y.

Address all correspondence to:

Box 27, Plainfield, N. J. PL 5-8228

BURLAP

Paper Wraps • Shade Cloths • Poly
Tarps • Saran • Nails • Twines

SEAMAN BAG CO.

2512 S. Damen Ave. Chicago 8, Ill.

COMPLETE MODERN TREE EXPERTS MANUAL

By Richard R. Fenska

Revised edition describes deciduous evergreen and palm trees. Reference on diagnosis of tree troubles, fertilizing, transplanting, pruning, surgery, diseases, insects and spray materials. 345 p., illus. (1956)\$7.00

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.

High Pressure SPRAY HOSE

800 Lbs.

Working

Pressure



Flexible, high-pressure horticultural spray hose. Resistant to oils, chemicals, insecticides and all DDT sprays. Each length complete with high-pressure couplings attached to fit all pressure sprayers.

Hose Is New, First Grade, Guaranteed!

CHOICE OF HOSE INSIDE DIAMETERS

LENGTHS	1/4-in.	3/8-in.	1/2-in.
25 ft.	\$10.75	\$12.65	\$17.75
50 ft.	19.75	23.40	37.75
75 ft.	28.75	34.15	47.75
100 ft.	37.75	44.90	62.75

Postpaid if payment sent with order; shipments made C.O.D. plus freight.

Agricultural Rubber Products Corp.

269A Washington St.

New York 7, N. Y.

IT COSTS NO MORE (and in most instances less) FOR OUR PACKING OF Nursery Burlap Squares and Rolls

Write for prices and samples

L. ATKIN'S SONS

P. O. Box 167 Rochester, N. Y.

Improving Garden Center Operations

Reported by H. W. Dengler

Methods by which nurserymen may improve their garden center operations to realize their full potential were outlined by D. Murray Franklin, editor of the Garden Supply Merchandiser magazine, Baltimore, Md., at the recent annual meeting of the Maryland Nurserymen's Association. A general report of the Maryland meeting appeared in the February 1 issue of the American Nurseryman.

Many of the most successful garden shops, Mr. Franklin pointed out, were started by retailers in other fields, such as hardware, mail order, department store, supermarket or power equipment.

These men had little or no plant background, but added nursery stock to their existing lines. The nurseryman who wants a fair share of the garden center business should reverse the procedure and add many of these other dealers' lines to his stock of plant materials. While there are many successful centers throughout the country operated by nurserymen, these are probably in a minority.

Any approach to retailing, he continued, must begin with certain historical aspects of garden center development. Only recently, as many as 32 different types of retail establishments were handling garden supplies, from hardware stores and drugstores to bicycle shops. It is only logical to bring this garden merchandise together for sale at one source—the garden center. The all-purpose garden center of the future will sell all things relating to gardening and outdoor living to the homeowner.

Sees Further Sales Increase

It is surprising how a few individuals can control the volume of garden business in any given area. This is big business, and that is why so many outside businessmen are entering the field. Estimates for sales of garden supplies, materials and equipment for the Baltimore metropolitan area alone range from \$17 million to \$19 million annually. With industries building new facilities and an excess of over 10,000 new housing units being started each year in this area, an increase in sales must be expected.

Can the nurseryman survive the chain, drugstore and mail-order competition? Before nurserymen

start condemning the wholesalers for selling to these outlets, they should put their own houses in order.

The reason why so many 5 and 10-cent, variety and other stores are going into this business, Mr. Franklin explained, is because the local nurserymen themselves have not been supplying the needs. These new types of competition cannot, however, compete against a good garden center.

Principles of profitable retailing involve the development of a good store personality through proper layout, design, a well-trained staff and good services.

The peak volume of business for nurserymen comes at the time when consumers are paying their income taxes and buying Easter clothes and new home furnishings. The nursery trade is then competing with these other trades for the seasonal dollars. So, Mr. Franklin said, nurserymen must consider giving credit; the large mail-order houses do and find their losses are extremely low.

Improved public relations can be

achieved by providing a community meeting room and by holding demonstrations, lectures and field days. Wholesalers and distributors will cooperate fully in promoting their products at open house events and demonstrations. Competition from neighboring garden centers is not to be feared; local stores selling other goods and services give the real competition.

What about outdoor living and pet supplies, barbecue equipment, bird feed and feeders and playground equipment? Modern homes, with their outdoor living rooms of grass and shrubs that have been designed and planted by nurserymen, where entertaining, eating and playing are increasingly taking place, should logically be supplied with furniture and equipment by nurserymen. Other stores are selling these items simply because the garden centers are not doing so, or are not providing the necessary credit to enable the purchaser to buy them conveniently.

A recent poll of well-to-do New

CUT WEEDING COSTS!



USE WEEDER GEES

Weeder geese eat troublesome grass and many broad-leaved weeds but do not touch nursery stock. Thousands now in use by nurserymen everywhere in all types of plantings, including evergreen and hardwood shrubs, flowering plants, seedlings, tree plantings, berries and orchards. Weeder geese replace expensive hand labor and do a continuous and better job—are inexpensive and easy to use.

Day-old goslings and weeder geese delivered anywhere. Write today for complete information.

**HEART OF MISSOURI
POULTRY FARM**

Box 237N

COLUMBIA, MO.

BURLAP

**AT THE LOWEST PRICES
ANYWHERE!**

Treated and Untreated

• Squares • Rectangles • Lengths
Pinning Nails • Polyethylene
Peat Pots • Lath House Covers

Tools • And Many Other
Nursery Needs

**Write for Free Illustrated
Catalog Today—Then Compare!**

**YOUR ONE-STOP NURSERY
SUPPLY HEADQUARTERS**

**COLUMBIA NURSERY
SUPPLY CO.**

P. O. Box 5068 Columbia, S. C.
Phone: AL 4-3786

York executives revealed that gardening, not golf, is their most popular hobby. People are staying at home more on holidays, Mr. Franklin stated, to participate in gardening and outdoor recreation rather than fight highway traffic.

Rapid Turnover Advisable

As a precautionary measure, he urged nurserymen to pay more attention to inventory control and to concentrate on more rapid turnover of stock. He advised against any unnecessary purchase of a 6-month or 1-year supply of stock direct from a wholesaler when one can obtain a 2 to 3-week supply from a local jobber. The more and quicker the turnover, the greater will be the profits.

Higher incomes and shorter work weeks allowing greater leisure time for outdoor living and decentralized living in the suburbs point toward increased business for garden centers. In fact, Mr. Franklin humorously pointed out, how can many suburbanites find their homes in these newly developed communities unless they are distinctively landscaped?

A garden center, Mr. Franklin concluded, must strive to continue its business over a full year's period rather than for just two or three months. That is why he recommended the sale of garden furniture, barbecue and playground equipment, bird seed and pet supplies. Incidentally, he said, the second-best month for selling power equipment in garden centers is, unbelievably, September.

STRAWBERRY TRUMPETER

The University of Minnesota horticulture department reports the development of a new, June-bearing strawberry that produces large, well-formed, brightly colored fruit especially good for marketing and freezing. Named Trumpeter, this strawberry shows off to exceptional advantage when packed in boxes for marketing and will maintain its attractive appearance and market quality for an unusually long period, it is declared. Trumpeter's firm, red-fleshed berries make good dessert fruit, whether fresh or frozen. The University of Minnesota food-processing laboratory has found Trumpeter one of the best for freezing.

W. A. JOHNSTON is retiring from the nursery business and will discontinue operations of Johnston's Homestead Gardens, Port Huron, Mich.

This nursery stock will thrive...



because **SESONE**
kills the weeds, cuts the cost of weeding!

More and more nurserymen are saving thousands of dollars with SESONE by eliminating hard labor in weeding while their nursery stock grows stronger, healthier, more profitable when it is sold!

Established nursery stock thrives when soil is kept weed-free with SESONE, the pre-emergence chemical that kills weed seeds before they sprout. SESONE gives excellent results on a wide variety of nursery stock—evergreens, shrubs, trees, perennial flowers, lined-out stock, raised beds—because it saves labor, increases income by preventing weeds before they become a problem!

Investigate the approved way of assuring yourself of highly saleable stock. See your Amchem Dealer today!



SESONE

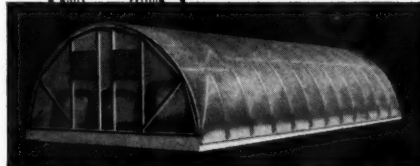
Amchem is a registered trademark of
AMCHEM PRODUCTS, INC. (Formerly American Chemical Paint Co.)
AMBLER, PA. • St. Joseph, Mo. • Niles, Calif.



Gro-Mor

THE PLASTIC GREENHOUSE

WITH THE LIFETIME
ALUMINUM FRAME



IDEAL GROWER SIZES: 11, 20, and 25 Ft.
Widths. Lengths available in Multiples of
8 Ft. . . . from 32 Ft.

Please write for Catalog and Price Sheet

LORD & BURNHAM (Div. of Burnham Corp.)
Dept. A Irvington, N. Y. • Des Plaines, Ill.
St. Catharines, Ont., Canada

Gro-Mor Another Fine Product of **Lord & Burnham**

SEYMOUR SMITH
SNAP-CUT
PRUNERS

**NO. 1
PRUNER**



PLANT PATENTS

The following plant patents were issued recently, according to Rummeler & Snow, Chicago patent attorneys:

No. 1899. Rose plant. To Dennison H. Morey, Jr., Pleasanton, Calif., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the miniature class, characterized particularly as to novelty by the unique combination of ease of propagation by rooted cuttings, compact flower heads, the unusually large size of the flowers, an unusual irregular arrangement of the flower petals, a distinctive silvery appearance of the buds as attributed to the white color on the reverse of the petals and a distinctive Tyrian-rose, lightly overcast with spinel red, general color tonality of the flowers, with an unusual white color at the base and hinge of the flower petals.

No. 1900. Rose plant. To Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the unique combination of a vigorous habit of growth, a strong flower fragrance corresponding to old rose perfume (centifolia) and a distinctive cartridge-buff, lightly overcast with eosine pink, general color tonality of the flowers, with cadmium-orange color at the base of the flower petals.

No. 1901. Peach tree. To John P. Tremmel and Minnie K. Tremmel, Gourney, Ia. A new and distinct variety of freestone peach tree, characterized particularly by its vigorous spreading growth; its early and prolific production of blossoms and fruit; its resistance to extreme cold; its large, dark pink blossoms, and its relatively large fruit with fine-grained, mild-flavored, yellow flesh and thin skin, which colors early and is almost devoid of fuzz.

No. 1902. Ilex crenata plant (Japanese holly). To Charles A. Rowland, Jr., Athens, Ga. A new and improved variety of Ilex crenata (Japanese holly) plant, characterized particularly by its vigorous, upright growth and divaricate branching; its ease of rooting from cuttings and high percentage of survival from transplants; the almost complete absence of chlorosis; the dark purplish-brown color of its twigs and stems in cool weather, and the dark blue-green color and flat, symmetrically elliptical form of its leaves of medium size.

No. 1903. Rose plant. To Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario. A new and distinct variety of rose plant of the class between the hybrid tea and floribunda classes, characterized particularly as to novelty by the unique combination of a vigorous, many-branched and fast-breaking plant habit; attractive and disease-resistant foliage of from medium to large size; a floriferousness at least as good as, and probably slightly better than, either Roundelay (plant patent No. 1280) or Fandango (plant patent No. 894); a habit of bearing flowers on stems of medium length, with the flowers borne sometimes singly and sometimes in small clusters; an attractive ovoid to urn-shaped bud form, said buds opening to a well-formed, high-centered, double flower of medium

**PETERS
SPECIAL**

THE FINEST NAME IN PLANT FOODS!

Unexcelled for
Container Feeding!
**PETERS
SEQUESTERED
FERTILIZERS**

with
M 77
Exclusive Chelating Formula
Positively Will Not Clog!
(See our classified ad in this issue)

ROBERT B. PETERS CO., INC.

ALLENTOWN, PENNA.

THE ROOTSPRED SINGLE-ROW ROOT PRUNER AND LIFTER WILL:

- Cut 2 ft. deep and 16 ins. wide mounted on 2-3 plow, 3-point lift tractor—in sod and hardpan.
- Make a clean cut on material 6 ft. high without injury using a high tractor. Sure penetration; ultra-sharp, U-shaped spring steel blade; interchangeable, alternate-sized blades.

Rootspred also has a bedlifter with razor-sharp, narrow 58-in. blades for pruning or lifting 4-ft. beds. Can be pulled by wheel tractor with 3-point lift. Write for details.

ROOTSPRED
St. Petersburg, Pa.

**WOOD
LABELS**

For Nurserymen

**DAYTON FRUIT TREE
LABEL CO.**

Ray and Kiser Sts.
DAYTON, O.

petal
of Fa
subst
ing v
ity o
inner
on th

No
Swi
stom
and
class
bund
as to
of a
habi
ant,
ness
pate
pate
proa
bear
some
flow
leng
from
ing
erat
twec
and
ers
a liq

N
Boe
Jack
and
flori
ly a
tion
and
into
lave
of
ton
vin
pur
ope
N
H.
or
N.
pla
par
cor
con
by

Beautiful — "TRU-ROK" — Waterfalls

Indoors or Outdoors

The unmatched beauty of a natural stone waterfall—a masterpiece fiberglass replica that weighs only 1/80th as much as real stone. Here is a truly enchanting addition to any decor . . . residential or commercial.

BEVERLY HILLS

37 ins. high — 48 ins. wide
33 ins. deep — 90 pounds

\$111.50

F.O.B. California

CATALINA

22 ins. high — 36 ins. wide
42 ins. deep — 70 pounds

\$90.00

F.O.B. California

Also 3 New Larger Models Available

Individual Landscape Stones, \$1.00 per lb.
10 stones from 3 to 35 lbs. each

(Jobbers' Inquiries Invited)

Distributed by:

STUPPY SUPPLY CO.

1014 Oak St. Phone: VI 2-6697 Kansas City 6, Mo.



• Recirculating pump sealed in oil • Plugs into any 110 V outlet • No plumbing connections • Electric pump guaranteed • Shipped ready to operate • Operates for pennies a day • Made of lightweight indestructible fiberglass with real crushed stone blended with styrene and resins to give the realistic look.

petalage; a flower size about equal to that of Fandango; a better than average petal substance, making the flowers long-lasting when cut, and a general color tonality of the flowers of light pink on the inner surface of the petals, with dark pink on the reverse surface of the petals.

No. 1904. Rose plant. To Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario. A new and distinct variety of rose plant of the class between the hybrid tea and floribunda classes, characterized particularly as to novelty by its unique combination of a vigorous, many-branched and bushy habit of growth; attractive, disease-resistant, medium-size foliage; a floriferousness between that of First Love (plant patent No. 921) and Pinocchio (plant patent No. 484) and more probably approaching that of Pinocchio; a habit of bearing flowers sometimes singly and sometimes in small clusters, with the flowers usually borne on stems of medium length; an attractive bud form ranging from ovoid to urn shaped, said bud opening to a flower of double form, with moderate petalage; a flower size midway between that of First Love and Pinocchio, and a general color tonality of the flowers of medium pink, blending in areas to a lighter pink color.

No. 1905. Rose plant. To Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the floribunda class, characterized particularly as to novelty by the unique combination of leathery and rugged foliage, large and irregular flower heads when coming into bloom, a distinctive deep vinaceous-lavender bud color and an unusual clarity of the distinctive lavender general color tonality of the flowers corresponding to vinaceous lavender lightly overcast with purplish lilac when the flower is fully open.

No. 1906. Rose plant. To Dennison H. Morey, Jr., Pleasanton, Calif., assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the miniature class, characterized particularly as to novelty by the unique combination of an attractive, low and compact plant habit; ease of propagation by rooted cuttings; a free-blooming habit;

THE BEST FOR LESS!

HY-GRO SOLUBLE FERTILIZER

Now 50 lb. poly-lined bag at 100-lb. price, 50 lb. for

\$10.00

at your wholesaler or
Plantabbs Corp., Balto 1, Md.

13-26-13 analysis
& secondary elements.



IT TASTES TERRIBLE!

... treated with

Z.I.P.

The Growing Season
RABBIT REPELLENT

- Z.I.P. is a taste repellent so distasteful to rabbits and deer they will actually spit out treated bark and foliage. A must for every vegetable and flower grower.
- Gives complete protection for entire growing season.
- Easy to apply—sprays on 6-oz., \$1.00 (aerosol can) 16-oz., \$2.25 (aerosol can) Also sold in quarts and gallons for nurseries, etc.

STANDARD DISCOUNTS—for full information and FREE SAMPLE write:

MEDICAL SERVICE CORP.

130 N. Campbell Ave.

Chicago 12, Ill.

Please mention the **American Nurseryman** when writing advertisers



Merry Tiller



Does all tiller and tractor jobs. Chain-gear drive gives equivalent of 2 extra h.p. Prepares toughest soil in one operation; tills up to 12" deep, 12" to 40" wide. Cultivates, mulches, weeds and does dozens of other jobs. Choice of models; rotors for every soil condition; drag tools & attachments.

Send for Free Folder!

MAIL TO: MERRY TILLER, 1405 Northern Life Tower
P. O. Box 1029, Seattle 11, Washington

Name
Address
City State
DEALER INQUIRIES INVITED

If you sell
potted plants,
you'll sell

Floragarde

Tiny moisture indicator for potted plants. Tells when to water. Squares show pink when moisture's right. Turn blue when it's time to water.



Packed 50
to a counter
display box

RETAIL: 15c each
COST: 9c each

Write for quantity
price-list.
All shipments ppd.

LIN-MAR DESIGNS
Dept. A, P. O. Box 203, Neosho, Mo.

Lawn and Garden Creations by WOLFCREST



**TAHITIAN
TORCH**
30 hour
Kerosene Burning



**WHEELBARROW
PLANTER**

PICK UP EXTRA SALES
—EASY PROFITS! Sell

Wolfcrest

"Safe 'n Lite" Bird Baths



"Safe 'n Lite" Bird Baths catch the fancy of bird lovers everywhere. Light green, glass-coated steel bowls end breakage—safe for children. Wrought iron bases. Shipped K.D. one to a carton. Easy to assemble, easy to stock, easy to sell. See your jobber or write for catalog.



4" - 5" - 6"
POT HANGERS
for Walls & Railings



SCROLLS
Three Styles



POT BASES
Three Sizes



WALL SCONCE

Consult your Jobber
or write for FREE Catalog to:

WOLFCREST PRODUCTS

JOHNSON ROAD
MICHIGAN CITY, INDIANA

miniature flower size of quite double form, and a distinctive La France-pink, lightly overcast with rose pink, general color tonality of the flowers.

No. 1907. Rose plant. To Dennison H. Morey, Jr., Pleasanton, Calif., assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the miniature class, characterized particularly as to novelty by the unique combination of a miniature plant and flower size; an open, flat and double form of the flowers, and a distinctive carmine, lightly overcast with spectrum red, general color tonality of the flowers.

No. 1908. Rose plant. To Dennison H. Morey, Jr., Pleasanton, Calif., assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of rose plant of the miniature class, characterized particularly as to novelty by the unique combination of a low-growing and open plant habit; perfect form of miniature buds and double form of the fully open flowers, said flowers being of miniature size, and a distinctive general color tonality of the flowers corresponding to white, faintly overcast with hermosa pink.

No. 1909. Rose plant. To Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the unique combination of a partly quilling habit of the outer flower petals while the inner petals remain full; a good tea fragrance of the flowers, and a distinctive and sharp bi-color general color tonality of the flowers corresponding to mikado orange on the reverse of the petals and scarlet red on the inside of the petals, with cadmium orange lightly overcasting the lower half of the petals on the inside.

No. 1910. Rose plant. To Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized particularly as to novelty by the unique combination of a habit of bearing flowers in large clusters, with the individual flowers ranging in size between those of Glacier (plant patent No. 1025) and Garnette (unpatented); superior stiffness of the flower petals; pure white color of the flowers, and long-lasting qualities of the flowers, both when cut and when on the bush, with attendant exceptional decorative value of the flowers.

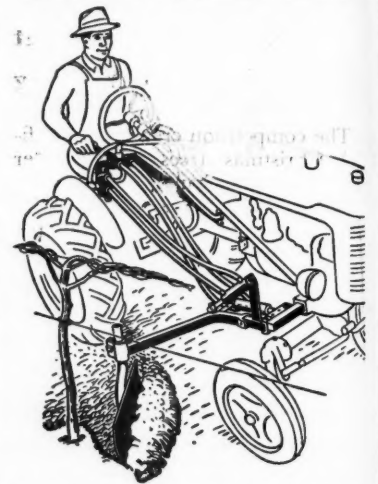
(Note: Plant patents Nos. 1911, 1912 and 1913 are owned by the Conard-Pyle Co., West Grove, Pa.)

No. 1911. Rose plant. To Francis Meiland, deceased, late of Cap d'Antibes, France, by Marie Louise Meiland, nee Paolino, legal representative, Cap d'Antibes. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the unique combination of excellent flower form; an unusually fine and tough petal texture, and an intense, velvety cardinal-red general color tonality of the blooms, overlaid with maroon.

All patents prior to plant patent No. 555 have expired and become public property. Until the actual date of expiration, a plant patent excludes others than the patent holder from propagating as well as growing or selling the plant.

GREEN'S TRACTOR HOE

Manual or Hydraulic Control



Green's Tractor Hoe will save you time and money. One man can do the work of many. Fits most makes of tractors.

Send for free literature.

HOWARD C. GREEN MFG. CO.
Portland, N. Y.

Prune cleaner, faster and at lower cost with LOMBARD POWER PRUNERS

Revolutionary engineering
principle does work of
three men

WRITE FOR COMPLETE CATALOG
Lombard Governor Corp.
Ashland, Mass.

Add color
to your
nursery
with Keiding
Art-Pots

Keiding

PAPER PRODUCTS CO.
Milwaukee 18, Wisconsin
Lebanon, Pennsylvania

POLY-TAINERS

For Growing Quality Nursery Stock
PRACTICAL—ECONOMICAL—EVERLASTING
TRIAL CARTON \$12.75. Postpaid
15 EACH, 3 AND 5-GALLON SIZES
Native American Holly Farms
115 S. Penn St. Manheim 10, Pa.

**Kill Weeds QUICKLY
JET TORCH**

Has over 99 farm uses. Burns 1 hour on 2 1/4 worth of kerosene. Disinfects livestock quarters. Destroys weeds, stumps. Splits giant rocks, irrigates. Burns 6% kerosene, 94% air. Endorsed by agricultural experts. Write for free descriptive literature today.
SINE, AN 2, Quakertown, Pa.

Discuss Selling of Christmas Trees

Panel States Problems at Recent Michigan Meeting

ated by arti-
cial on. . . came under
heavy fire in a panel discussion on
"Better Christmas Tree Growing:
Trends and Predictions," at the
Michigan convention.

Ed Kidd, Wayne county extension
agent, declared nurserymen should
know the species of Christmas trees
they are selling. Know the traditions
and ceremonies of the Christmas
tree, he suggested. The Christmas
tree sold in the sales lot will remain
popular if the traditions, such as
taking the family out to purchase
the tree and putting it up, are con-
tinued.

Paul Armintrout, Armintrout's
Evergreen Nursery, Allegan, Mich.,
believes that well-produced trees
will continue to sell readily. How-
ever, more care in growing is re-
quired, and marginal operators will
be affected. He said that the public
is beginning to accept spruce and
fir trees.

Nurserymen, said Marion Van
Slooten, Vans Pines, West Olive,
Mich., should look more closely into
the selling of Christmas trees, as it
can be a profitable business. There
are many good-quality trees to be
found in the northern states, he
added.

Lester Bell, extension specialist in
forestry, Michigan State University,
chairman of the panel, pointed out
that a training film on selling Christ-
mas trees would prove beneficial. He
said that native trees are often cut
too soon in order to get them out
of the woods before heavy snows
fall.

Competition Keener

Persons who are producing Christ-
mas trees are becoming more nurs-
erymen than foresters, opined How-
ard Hunt, Huntree, Saugatuck. In
growing trees it is better to have a
small acreage and do a concentrated
job. Skilled persons are needed in
pruning trees, as many are spoiled
through improper methods. In Mr.
Hunt's opinion, the number of trees
that end up as salable stock is becom-
ing smaller. He had heard the
percentage was 10 per cent, but he
believed the correct percentage to
be closer to 2 per cent.

Mr. Bell said that what was a
salable tree 10 years ago would not

Econ-O-Me BALLING ATTACHMENT



Mounts on: Ford, Farmall, John Deere, Oliver,
Allis-Chalmers, M-M, Case, etc.

Write for Free Catalog

NURSERY EQUIPMENT CO., INC.

Maple Plain, Minn.

DARLING'S
"Rite in the Rain"
**WATERPROOF
TREE AND PLANT LABELS**
"Rite in the Rain" labels are not just
another paper label. They are made of
tough tagboard and chemically treated
to make them waterproof. Ordinary
pencil markings do not wash off. These
are longer lasting yet low-cost labels.
Millions are used every year by nursery-
men.
Write for samples and prices.
J. L. DARLING COMPANY
BROWN'S POINT, TACOMA, WASH.

**Dutch and Domestic
BURLAP**
PLAIN and TREATED
Established 1925
IMPORTERS—MANUFACTURERS
Distributors of Bird Pots,
Menne-Pots and Lerio Nursericans
J. SHORE & CO.
Chelsea, Mass.

**A. M. & SON
LEONARD**
PIQUA, OHIO
Knives - Shears - Pruning Tools
Nursery Spades—Grafting Supplies
Write for Catalog

You Can Learn LANDSCAPING

Increase your earnings! Develop a hobby!
Now you can learn landscaping in 8 to 12
months with this thorough, easy-to-follow
method!

American Landscape School can teach you
the newest, most modern landscape methods
and trends . . . right in your own home!
You'll study contemporary landscape and
garden design, drafting, mapping and field
work. You'll improve your knowledge of
horticulture, construction, superintendence,
salesmanship, office practices. Successful
graduates throughout the world. 44th year.

FREE to all students: 45 illustrated
lessons
9 valuable
textbooks
Dictionary
Consultation
service
Monthly letter
50 imprinted
business cards
Drafting set free
with advance
full payment.



Mail coupon for complete information.

AMERICAN LANDSCAPE SCHOOL

Accredited by National Home Study
Council (Charter member)
Dept. 240-B, 4040 42nd St., Des Moines 10, Ia.
Please tell me how modern landscaping
methods can increase my income.

Name
Address
City State

USE THE BEST

STERLING PEAT

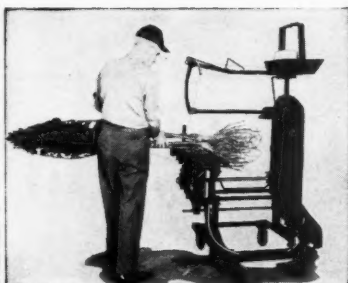
According to state tests, Sterling peat com-
pares favorably with the best on the market.
Available in 25-lb. bags, 60-lb. bags and 100-
lb. bags. Also in bulk.

CHRISTIAN KRISTOFF

Sterling Junction, Mass. Phone: GRafeld 2-0808

SAXMAYER NURSERY STOCK BUNDLERS

SPEEDY - SAFE - RUGGED



MODEL SRN

Uses jute or sisal twine to tie bundles automatically, up to 10 1/2 ins. in diameter. Will tie in any sequence with one wrap and with a nonslip bow knot.

ALSO - MODEL EM

A light, speedy bench model using cotton twine for bundles up to 4 1/2 ins. in diameter.

Our liberal trial period and guarantee insure you complete satisfaction.

LITERATURE ON REQUEST

NATIONAL BUNDLE TYER CO.

Dept. A
BLISSFIELD, MICH.

ROOTSPRED TREE PLANTERS

Tree planters take a beating. Be sure you are getting a good guarantee, good design and careful workmanship before you buy. Our M-55 at only \$275 features compact, sturdy design, most comfortable planting position, no adjustments or superfluous parts to get out of order. Nonclogging scalpels available for some models. Write for details.

ROOTSPRED
St. Petersburg, Fla.

**Remember,
it's Ryan**

**SOD CUTTERS THAT CUT SOD,
CULTIVATE, AERIFY AND EDGE**

be now. The market has changed. Competition has become keener.

Aluminum trees have moved into the market which formerly required the top-quality green trees, interjected Mr. Armintrout. This type of artificial tree is being marketed by persons who really know how to merchandise. He believed that flocked trees paved the way for aluminum trees.

Mr. Bell pointed out that ordinances in a few cities in Michigan allow freshly cut trees to remain in schools for only four days. The atmosphere for selling trees is poor, he asserted; many times unshaven individuals show them. Good outlets are needed and would produce higher prices.

A member of the audience related that he maintains four lots at Dearborn at which only Christmas trees selling from \$10 and up are offered. Six trees are lined up at a time, and appointments are arranged for customers to make their selection. He advised drilling holes in trunks of misshapen Christmas trees to insert branches. A certain percentage of buyers will spend \$10 or more for a Christmas tree, and this is the trade he is after.

Mr. Bell countered that more persons pay \$3 for a tree than pay more. Answering a question as to why nursery Christmas tree growers do not grow balsam fir trees, he said they are difficult to grow, while Scotch pine is relatively easy.

Mr. Hunt believed there will be a future in Douglas fir and pointed out it looks similar to balsam.

As to the future of living Christmas trees, it was agreed that much promotion is needed to make their sale successful. The grower cannot furnish 5 to 6-foot living Christmas trees, as they require a 200-pound ball, and the grower cannot obtain enough money to make it profitable. It was thought that there would be a good market for 3 1/2-foot living Christmas trees.

LONG ISLAND SHOW

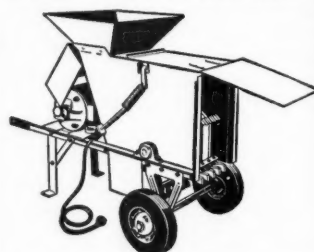
[Continued from page 12]

streams meandering through a pebble area. The garden contained rocks, Japanese lanterns and a stone Shinto temple that attracted considerable attention. The garden was a scaled-down model of a natural scene and had several varieties of mosses and azaleas.

Bench's Florist & Nursery, Huntington, L. I., exhibited a formal garden with a rectangular pool as a central feature. At each end of the pool, fountains sprayed streams that

BETTER SOIL PREPARATION FOR LESS WITH KEMP

The KEMP outstanding service record is well-known among professional growers and has been for two thirds of a century. Features pioneered by KEMP are today accepted as standard. A KEMP has fewer parts to wear and get out of adjustment like the feature of all shredding teeth being stationary. This has proved one of the big features that keep the KEMP on the job instead of in the repair shop. The KEMP improved principle of soil shredding (not grinding) aerates and retains the moisture and nutrients for better yield.



PRICES START UNDER \$100.00

KEMP capacities range from 2 to 40 cubic yards per hour. Learn more about the complete KEMP line. New illustrated, informative catalog now ready—send for your copy today.

NEW ALL-PURPOSE MODEL

KEMP Model 6-0 soil and compost shredder is widely accepted as an aid in shredding old discarded stalks, vines and plants for the compost pile. The KEMP 6-0 shreds soil perfectly for both bench and potting in addition to accelerating the decomposition of materials for composting.

KEMP SINCE 1890
MFG. COMPANY

"First in Soil and Compost Shredders"
Dept. 18, 1027 E. 20th St. Erie, Pa.

HYPONEX Soluble PLANT FOOD Complete

GROWS BETTER PLANTS IN SOIL, SAND OR WATER

SELL HYPONEX for extra profit. Nationally advertised. Steady, repeat sales. Millions now buy it for house plants, garden flowers, vegetables and lawns.

USE HYPONEX. Commercial and home growers use for seedlings, cuttings, transplants, general feeding of all plants. Sturdier plants.

Retail Price	Dealer & Grower Cost
1/2 oz. pkt. 15¢.....	48 to case — wt. 3 lbs. \$4.80 case
2 oz. can 29¢.....	36 to case — wt. 7 lbs. \$6.96 case
5 oz. can 59¢.....	24 to case — wt. 11 lbs. \$9.44 case
10 oz. can 1.00.....	12 to case — wt. 12 lbs. \$8.00 case
2 lbs. can 32.45.....	6 to case — wt. 15 lbs. \$9.80 case
5 lbs. can 84.95.....	4 to case — wt. 24 lbs. \$13.20 case

Larger Sizes Available. If Jobber Can't Supply, Order Direct. Write for list of other ONEX home and garden products.

HYDROPONIC CHEM. CO., Copley 21, Ohio, U.S.A.

Your basic manufacturing source for TINSEL ★ FLOCK ★ GLITTER

ADVANCE PROCESS SUPPLY CO., Inc.
2315 W. Huron St. Dickens 2-0600 Chicago 12, Ill.

For Easier Seeding

... use **PIXTONE**

Mechanical Stone Picker

Get complete details from mfr.—write:
BRIDGEPORT IMPLEMENT WORKS, INC.
1483 Stratford Ave. Stratford 14, Conn.

crossed and formed a double arch. Annuals and dwarf boxwood added to the neat outlines of the garden.

A greenhouse nestled in a corner of a garden of taxus hedges, planned by Hyson Associates, Glen Head, L. I., held a collection of rare orchids and succulents.

John P. Kean, Levittown, L. I., exhibited a corner garden that gave viewers an idea of what could be done with a problem area. The use of boulders, pebbles and dwarf Japanese plants was satisfying.

Atlantic Avenue Nursery, Freeport, L. I., staged a garden showing California and European influence, yet it was designed and constructed to meet Long Island conditions. The exhibit featured plants such as corkscrew hazel, Swiss stone pine, blue Atlas cedar and varied junipers.

Punch Bowl Nursery, Northport, L. I., constructed an authentic Japanese garden in conjunction with the Yoshimura Bonsai Co., Ossining, N. Y., and Tokyo, Japan. Yuji Yoshimura, a third-generation designer, displayed his skill effectively with bonsai plants, a dry pebble stream, two small bridges, rocks and skillfully pruned Japanese plants.

The National Association of Gardeners, western Long Island branch, exhibited a collection of greenhouse flowering plants, herbaceous plants and flowering shrubs. Oak Hedge Nurseries, Bay Shore, L. I., presented a low-budget, back-yard border planting.

Port Washington Nursery, Port Washington, L. I., combined Japanese and American design ideas with pleasing results. About a center walk, a dry pebble stream and a cedar pole bridge, flowering peaches, crab apples and white birch provided a background for plantings of andromedas and rhododendrons.

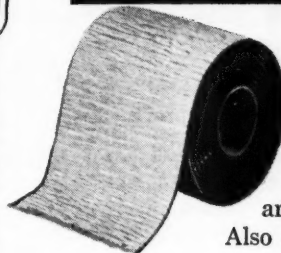
Treeland, Lindenhurst, L. I., exhibited an indoor-outdoor garden for use in the winter as well as the summer on Long Island. The main feature—a 4-tiered fountain—was complemented by azaleas, andromedas and boxwood for the summer garden, and the same fountain could be moved indoors and be complemented with foliage plants for winter enjoyment.

An exhibit that is always a center of conversation was that of Hollyby-Golly, St. James, L. I. Many species and varieties of hollies were presented from Long Island's largest collection.

OPENED recently at 5320 Redwood highway, Santa Rosa, Calif., was the Ellis Nursery, operated by Allen Ellis.



Protect young trees with new TRU-TEST Tree Wrap



Finest quality tree wrap of asphalt laminated creped kraft. Exceptional clinging ability. In standard nursery rolls, 4" x 150 ft. Also available in resale size rolls, individually band labeled —



packed in combination shipping and display carton



MAIL COUPON FOR
FREE SAMPLE AND
PRICE INFORMATION

TAPE, INC., Box 685, Green Bay, Wis.
Please send us sample and price information

NAME

STREET

CITY STATE

We operate a nursery..... ☐

We operate a garden supply store..... ☐

We are wholesalers ☐ Please check

NAMSCO PEATS =

SALES REPEATS

FINELY GRANULATED
HIGHLY ABSORBENT
TOP-QUALITY
CANADIAN AND
EUROPEAN

PEAT MOSS



Prompt Shipments
"Hollandia" Burlap
SQUARES
REED MATS
for Coldframes

Write for Prices
State Requirements
NEW AMSTERDAM IMPORT CO.
120 Grand St., White Plains, N. Y.

Mention The American Nurseryman when you write.

RA-PID-GRO Makes More Money For You 2 WAYS!



1. Use it!

2. Sell it!

STOCK UP ON
RA-PID-GRO NOW
RA-PID-GRO CORP.
Dansville, N. Y.

The Pioneer In Foliar Feeding

Twine and Cordage

For All Nursery Requirements

GEO. B. CARPENTER & Co.

SINCE 1840
401 N. Ogden Avenue, Chicago 22, Ill.

INVESTIGATE

HUMIDOMIST

System for Intermittent Misting
MANY IMPORTANT ADVANTAGES
Write for Circular 577A

SUPREME ELECTRIC PRODUCTS CO.
194 Vassar St. Rochester, N. Y.

Imported

JET ROD FLAME GUN

- Melts ice and snow.
- Burns weeds in walks.
- Thaws frozen pipes.
- Sterilizes soil, seed flats and benches.
- Many other uses.



Proven in England where it is made. Saves time and energy. Uses kerosene. **SOLD BY MAIL. \$29.50.** POSTAGE PREPAID FOR CASH WITH ORDER.

For Full Details
Write:

E. C. GEIGER
P. O. Box 270
North Wales, Pa.

Top-Quality

Dutch and Domestic
**BURLAP SQUARES
TWINES
NURSERICANS**

Write for our low prices and samples.

HALPERN BROS.
1626 S. Delaware Ave.
Philadelphia 48, Pa.

Mention The American Nurseryman when you write.

NURSERY TAGS "Weather Resistant"

Size 1/2x6 ins.	
Prices per 1000—Tag Stock	
1000 to 4000.....	\$1.35
5000 to 9000.....	1.10
10,000.....	1.00
20,000.....	.75
50,000.....	.75
100,000.....	.65

- Made of Water-resistant Paper Stock
- 8 Colors Available
- 9 Sizes and Styles
- Sheets of Ten for Typewriting

Write Today for Prices and Samples

PREMIER SOUTHERN TICKET CO., INC.
P. O. Box 5 CINCINNATI 7, O.

Legal Decisions

ZONING DECISION

An owner of residential property in a village adjacent to Chicago and near a nursery sued the village zoning board, challenging the validity of a provision of the local zoning ordinance and rulings by the board, which favored the nursery owner. In approving a dismissal of the suit, the Illinois appellate court, first district, first division, decided:

"Before passage of the zoning ordinance the nursery owner could have erected on his property, under a prior ordinance, a building without any limitation as to height or area, and the zoning ordinance provided for such limitation. The ordinance, therefore, actually constituted a restriction imposed upon the nursery owner which would benefit plaintiff's property, and hence plaintiff failed to show any damage to his property because of the zoning ordinance, which was alleged by plaintiff to be an unconstitutional exercise of power by the village board."

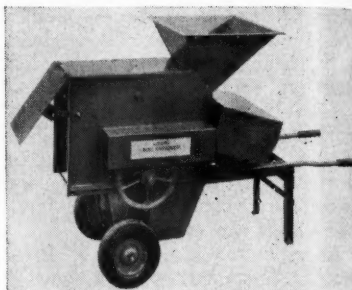
The complaint attacking the validity of an ordinance which granted a variance permitting the owner of the nursery to operate a gift shop on his property was properly dismissed where it alleged, unsupported by fact, that the value of plaintiff's property would be greatly depreciated, made other allegations with reference to damage that would result to public generally and failed to show the character of business conducted by the nursery owner or any facts that would indicate that there would be substantial damage done to any of the adjoining property. (Rueter v. village of Flossmoor, 154 N.E. 2d 835.)

OPENING Roemer Nursery at Green road, North Madison, O., is E. Stroombeck, formerly employed as propagator at the Warner Nursery, Willoughby, O. He intends to specialize in contract propagation of broad-leaved evergreens.

PURCHASE of 80 acres of the Nona T. Dodge farm, a mile and a half west of Fremont, Neb., has been announced by Plumfield Nurseries, Fremont, for gradual expansion of their operation.

ARBORKNOLL NURSERY, 1015 East Armour, Kansas City, Mo., is being started as a retail nursery and arborists' business by R. N. Kirkpatrick.

How You Benefit from Precision Soil Shredding



Exclusive patented dual shredder assembly produces highest quality, uniform textured soil materials with all the valuable manures and other humus retained for vigorous plant growth.

Efficient design of shredding rotor provides instant and positive shredding and mixing, of even the most difficult soils, wet or dry. Will discharge 10 ft. out to pile, bench, wheelbarrow or low trailer. Stones and other foreign materials pass through assembly without damage to shredder.

Model B capacities range from 3 to 25 cu. yds. per hr. Optional gas or electric power units. Screening attachments available.

Get complete details on efficient, low cost power shredding with Lindig Soil Shredders. See your local dealer or write factory.



1875 West County Road C, St. Paul 13, Minn.

BOOKS ON PRUNING

The Pruning Manual, by E. P. Christopher. Based on Pruning Manual by L. H. Bailey. Authoritative information on pruning all temperate-zone fruits, shade trees and ornamental shrubs. Sections on forestry, grafting, root pruning, wound treatment and tools. 320 p., illus. (1954)\$5.00

Pruning Without Pain, by O. B. Howell. Trees, shrubs, evergreens, hedges, vines, roses, fruit trees, grapevines and root pruning. Many fine drawings show precisely what and how to cut. 40 p. (1958)\$1.00

Sunset Pruning Book, by R. L. Hudson. Instructions on pruning rhododendrons, azaleas, roses, evergreen and deciduous trees. Section on how to espalier. 80 p., illus. (1952)\$1.75

Pruning Made Easy, by Edwin Steffek. Tells how, what and when to prune. Covers trees, shrubs, evergreens, hedges, roses, small fruits, grapes and vines. 120 p., illus. (1958)\$2.95

AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

USE NURSERICANS FOR ADDED PROFIT

NOW AVAILABLE
IN 6 SIZES
1 GALLON* THROUGH
6 GALLONS*

*Trade Designations

THE Lerio CORP. Mobile, Ala.
P. O. Box 1050
Valdosta, Ga.
P. O. Box 567

from
ding

assembly
tured soil
ures and
us plant

provides
mixing, of
dry. Will
h, wheel-
er foreign
without

to 25 cu.
ric power
ble.

low cost
hredders.
ry.

IPMENT

ig

13, Minn.

ING

Christo-
y L. H.
on on
shade
ections
runing,
illus.
...\$5.00

Howell.
vines,
d root
w pre-
40 p.
...\$1.00

Judson.
ndrons,
ictuous
80 p.
...\$1.75

Steffek.
prune.
edges,
vines.
...\$2.95

N
s 4, Ill.

NS

le, Ala.
Box 1050
sta, Ga.
Box 567

AVAILABLE NOW

A fine selection of dormant stock available in our cold storage for immediate shipment.

Shade Trees: All popular varieties.

Shrubs: Large quantities in all sizes.

Vines: In most varieties.

Roses: 2-yr., No. 1, only in most patented and nonpatented varieties.

Fruit trees and small fruits: A good selection of most varieties and sizes.

Write or call for special quotations.

Phone: 406 or 407

THE

LAKES

Shenandoah
NURSERIES

SHENANDOAH, IOWA

"Climate-Proven"

3-YEAR OLD



50,000 OWN-ROOT FRENCH HYBRID LILACS

FRENCH HYBRID LILACS and ASIATIC FLOWERING CRAB APPLES

LILAC VARIETIES

Pricing basis	Each
Sold Only in Multiples of 10	
18 ins., field liners	\$0.70
24 ins., field liners	.85
30 ins., field liners	1.00
36 ins., field liners	1.20

Following Lilac Varieties and Sizes Available:

PERSICA LACINIATA, single, light pink, 18 ins., 24 ins., 30 ins., 36 ins.

CONGO, single, wine-red, 18 ins., 24 ins.

GENERAL SHERIDAN, double, white, 36 ins.

MADAME FLORENT STEPMAN, single, white, 18 ins., 24 ins., 30 ins., 36 ins.

CRAB APPLE VARIETIES

Pricing Basis	Each
Sold Only in Multiples of 10	
18 ins., field liners	\$0.50
2 ft., field liners	.55
3 ft., field liners	.75
4 ft., field liners	1.00
5 ft., field liners	1.25

Following Malus Varieties and Sizes Available:

ADSTRINGENS, single, pink flowers, red, yellow and green fruit, 18 ins., 2 ft., 3 ft., 4 ft., 5 ft.

ALMEY, bright red flowers, red fruit, 2 ft., 3 ft., 4 ft., 5 ft.

DOLGO, white flowers, red fruit, 18 ins., 2 ft., 3 ft.

FLORIBUNDA, pink flowers, yellow fruit, 4 ft.

FLORIBUNDA PURPUREA, single, purplish-red flowers, purple-red fruit, 2 ft., 3 ft., 4 ft.

HOPA, single, pink bud, white flowers, red fruit, 2 ft., 3 ft., 4 ft., 5 ft.

KATHERINE, double, pink and white flowers, red fruit, 2 ft., 3 ft.

MOERLANDSI PROFUSION, carmine-red flowers, bright red fruit, 4 ft., 5 ft.

PURPUREA ELEYI, purplish-red flowers, red fruit, 4 ft., 5 ft.

RED SILVER, single, purplish-red flowers and fruit, 2 ft., 3 ft.

RINGO, pink flowers, orange fruit, 18 ins., 2 ft.

Crab Apples and Lilacs are undoubtedly the two most popular blooming ornamentals adapted to northern climate and heavy soil conditions. Hill's have further screened the lists of available varieties and selected only those which will **produce** for the nurseryman. These varieties will grow well . . . these varieties will sell well.

The Lilacs are all 3-year-old, OWN ROOT. The Flowering Crab Apples are 2-year-old from piece root grafts, NOT BUDDED.

(Prices are as listed . . . NO sneaky extras like packing or boxing.)



D. HILL NURSERY COMPANY

DUNDEE, ILL.

Phone HAZel 6-345

Largest Evergreen Growers in America